

APPENDIX II.—FOR GENERAL ASSISTANCE, YOU MAY WISH TO CONTACT THE FOLLOWING AGENCY COORDINATORS FOR THE PRIVACY ACT

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Bureau of Labor Management Relations and Cooperative Programs	Tony Massey	Rm. N-5402, F.P. Bldg.	523-6231
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Employee's Compensation Appeals Board (ECAB)	Mary Ellen McKenna	Rm. 300, Reporters Building	472-3066
Employment Standards Admin. (ESA)	Dorothy Chester	Rm. S-3013C, F.P. Bldg.	523-8447
Employment and Training Admin. (ETA)	Patsy Files	Rm. N-4671, F.P. Bldg.	535-0695
Office of the Inspector General (OIG)	Pam Davis	Rm. S-5506, F.P. Bldg.	523-6747
Deputy Under Secretary for International Affairs or Bureau of International Labor Affairs (ILAB)	Patricia Clark	Rm. S-5303, F.P. Bldg.	523-6136
Office of Labor-Management Standards (OLMS)	James Santelli	Rm. N-5613, F.P. Bldg.	523-7373
Mine Safety and Health Admin. (MSHA)	Richard Baker	Rm. 727, Ballston Towers #3, Arlington, VA.	235-1470
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Pension and Welfare Benefits Admin. (PWBA)	June Patron	Rm. N-5670, F.P. Bldg.	523-6999
Office of the Solicitor (O/SOL)	Miriam Miller	Rm. N-2428, F.P. Bldg.	523-8188
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- a. Frances Perkins Building, 200 Constitution Avenue, NW., Washington, DC 20210.
- b. CAO Building, 441 G Street, NW., Washington, DC 20212.
- c. Ballston Towers No. 3, 4015 Wilson Boulevard, Arlington, VA 22203.
- d. Reporters' Building, 300 7th Street, SW., Washington, DC 20024.
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Part III

Environmental Protection Agency

40 CFR Part 86

Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines; Certification Procedures; Final Rule

**ENVIRONMENTAL PROTECTION
AGENCY**

40 CFR Part 86

[AMS-FRL-3617-4]

RIN 2060-AB54

**Control of Air Pollution From New
Motor Vehicles and New Motor Vehicle
Engines; Certification Procedures****AGENCY:** Environmental Protection
Agency.**ACTION:** Final rule.

SUMMARY: This rule revises the new motor vehicle and new motor vehicle engine certification procedure for 1992 and later model year light-duty vehicles (LDV's), light-duty trucks (LDT's), heavy-duty vehicles (HDV's) and heavy-duty engines (HDE's). The revisions primarily apply to manufacturers certifying under the small-volume manufacturers and small-volume engine family certification regulations. Some minor revisions are included which apply to all manufacturers. EPA published the proposed revisions to the motor vehicle and engine certification procedure in a notice of proposed rulemaking (53 FR 7676) on March 9, 1988. The proposed revisions were designed to improve the assurance that emission control systems (and fuel metering systems) on vehicles and engines certified under the Agency's small-volume certification procedures were satisfactorily durable. In addition, the Agency proposed minor revisions to assure that the current voluntary actions of most manufacturers with regard to the certification process are performed by all manufacturers requesting vehicle certification. EPA received comments on the proposed revision from six vehicle or engine manufacturers and one company representing a manufacturer. A summary and analysis of the comments has been placed in Public Docket Number A-85-30. These comments were considered in preparing this Final Rule.

EFFECTIVE DATES: March 30, 1990.

ADDRESSES: Copies of materials relevant to this rulemaking proceeding are contained in Public Docket A-85-30 at the U.S. Environmental Protection Agency, Central Docket Section, Room 4, South Conference Center (LE-131A), Waterside Mall, 401 M Street, SW., Washington, DC 20460, and are available for review weekdays between 8 a.m. and 3 p.m. As provided in 40 CFR part 2 a reasonable fee may be charged for copying services.

FOR FURTHER INFORMATION CONTACT: Charles Cole, Certification Policy and Support Branch, Certification Division, U.S. Environmental Protection Agency, 2565 Plymouth Road, Ann Arbor, MI 48105, (313) 668-4444.

SUPPLEMENTARY INFORMATION:**I. Background**

Under the authority of the Clean Air Act, EPA has promulgated certification regulations which historically allowed manufacturers to certify a limited number of vehicles or engines (i.e., 2,000 units in any vehicle or engine category) using small-volume certification procedures. The small-volume certification procedures allowed certification to be based on deterioration factors (d.f.'s) provided by EPA (assigned d.f.'s) rather than actual durability test results. EPA promulgated revisions (46 FR 16259) to the small-volume certification procedures in March 1981, allowing small-volume manufacturers to certify up to 10,000 units annually using assigned d.f.'s. The revised small-volume manufacturer certification procedure reduced the administrative and testing burden associated with certification.

To reduce certification program costs to larger manufacturers, in October 1981, EPA promulgated revisions (46 FR 50464) to the certification regulations applicable to manufacturers with sales of 10,000 or more units per year. Included in these revisions was a provision which allowed larger manufacturers to certify small-volume engine families with a cumulative total of fewer than 10,000 units per manufacturer using assigned d.f.'s. These revised procedures reduce the administrative and cost burden of the certification regulations on larger manufacturers (i.e., manufacturers producing 10,000 or more units per year) for some small engine families.

EPA proposed additional revisions (53 FR 7676) to the small-volume manufacturer and small-volume engine family certification procedures on March 9, 1988. The proposed revisions mainly addressed the durability requirement for vehicles and engines certified according to the Agency's small-volume manufacturers certification procedures. Some additional changes were proposed which affect all manufacturers using the certification process. These additional changes clarify regulatory intent and put in regulatory form several procedures voluntarily being followed by the majority of certifying manufacturers. Putting these procedures into the regulations will assure they are also

carried out by any new manufacturer seeking certification.

Written comments on the proposed revisions were submitted by Chrysler Motors Corporation, Cummins Engine Company, Inc., Ford Motor Company, General Motors Corporation (GM), Volkswagen of America, Inc. (VWofA), Toyota Technical Center, and Olson Engineering Inc. (representing Officine Alfieri Maserati S.P.A.). Chrysler and Olson also presented testimony at the public hearing held to discuss the notice of proposed rulemaking. All significant comments on the notice are analyzed in a document entitled, "Summary and Analysis of Comments Pertaining to the Proposed Rulemaking Entitled 'Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines; Certification Procedures.'" The summary and analysis of comments is in the Public Docket.

II. Issues Considered and Adopted**A. Model Year of Implementation**

In this final rule, EPA is promulgating revisions to the motor vehicle and motor vehicle engine emission certification procedures for LDV's, LDT's, HDV's and HDE's effective beginning with the 1992 model year. EPA had originally proposed that these revisions should become effective beginning with the 1990 model year. However, GM, Chrysler and Olson commented that implementation of proposed revisions would not be feasible for the 1990 model year. Chrysler also indicated that its ability to carry out these proposals for the 1991 model year is questionable. GM and Olson indicated that the proposals should not be implemented prior to the 1992 model year.

Presently, implementation of this final regulation is no longer practicable for the 1990 model year. Most firms are nearing completion of their 1990 certification programs. Except possibly for the durability testing provision, the provisions of this final rule could still be implemented for the 1991 model year. With regard to durability testing, it should be possible for many manufacturers to make special schedule arrangements to perform tests on the additional durability test vehicles required by these regulations and still complete certification on time to meet their production and marketing plans. As pointed out in the NPRM, a durability test vehicle requires approximately 4 months to complete. However, EPA agrees that implementation for the 1991 model year might unduly limit planning time, and may not provide sufficient contingency

time to deal with any problems which might arise during development or durability testing. To prevent any undue disruption or hardship for certifying manufacturers, and to allow sufficient time for the manufacturers to make their product plans for future model years, EPA is designating the 1992 model year as the effective year for these regulations.

B. Durability Demonstration Requirements

Under the existing certification regulations small-volume manufacturers and larger manufacturers certifying small-volume engine families may utilize EPA-derived assigned d.f.'s in place of completing the full durability evaluation (i.e., 50,000 miles for light-duty vehicles). As a result, the durability demonstration requirements imposed on manufacturers utilizing the small-volume certification procedures do not vary according to the previous durability history of the emission control components or systems (and fuel metering systems).

In today's final rule, EPA is adopting changes, proposed in the NPRM, that make durability demonstration requirements for small-volume manufacturers and larger manufacturers certifying small-volume engine families contingent on the previous history of the component or system. These changes apply to all manufacturers certifying under the small-volume program with annual sales of more than 300 units per year. Changes are adopted in three areas.

First, EPA is adopting the use of manufacturer-determined assigned d.f.'s in place of EPA-derived assigned d.f.'s for exhaust emission certification of gasoline-fueled and diesel LDV's that use proven emission control components or systems (and fuel metering systems).¹ The assigned d.f.'s will be determined by the manufacturer using its good engineering judgment. As proposed, the manufacturer-determined assigned d.f.'s can be no less than the d.f.'s the

manufacturer determined itself from running durability vehicles—either the averages of these durability vehicle d.f.'s or the 70th percentiles of the d.f.'s, whichever are lower. Manufacturers who do not have d.f. data on at least two certification durability-data vehicles may not certify with manufacturer-determined assigned d.f.'s lower than values specified by EPA.

Second, EPA is adopting rules that require full durability evaluation of unproven emission components or systems (and fuel metering systems).² To reduce the durability demonstration costs in any one year, the manufacturer needs to conduct durability testing on vehicles representing only 25 percent of those that will be equipped with previously unproven technology. Upon completion of the 25 percent durability requirement and certification of those vehicles, the remainder of those small-volume manufacturer's unproven emission control technology sales for that model year may be certified using manufacturer-determined assigned d.f.'s.

Finally, EPA is adopting rules that eliminate the use of assigned d.f.'s for LDV and LDT evaporative emissions, and LDT and HDE exhaust emissions. In these cases, EPA proposed eliminating assigned d.f.'s as redundant and unnecessary since the manufacturer can already determine the appropriate deterioration using good engineering judgment as specified in the current certification regulations (e.g., 40 CFR 86.090-24(c)).

EPA will continue to provide EPA-derived assigned d.f.'s for manufacturers whose sales do not exceed 300 units per year. However, as required under EPA's current assigned d.f. program, each manufacturer must still determine that the EPA-derived assigned d.f.'s appropriately represent the deterioration of its vehicles or request use of alternative d.f.'s that it has determined to be more appropriate.

GM recommended that, when sufficient durability data is available, the manufacturer-specific d.f.'s (both manufacturer average and 70th percentile d.f.'s) be generated using only the data from systems similar to the proposed design in lieu of using *all* existing manufacturer's certification durability data (40 CFR 86.090-26(a)(2) and (a)(4)). EPA agrees that allowing the manufacturer to limit the durability data to that from similar systems³ for

calculating the manufacturer-specific average and 70th percentile d.f.'s would provide d.f.'s that are more representative of the manufacturer's specific designs than those obtained using all the manufacturer's durability data. This is especially true of larger manufacturers, (e.g., GM, Ford, Chrysler, Toyota, Honda, etc.), who have completed a large number of durability-data vehicles equipped with various emission control designs and, therefore, have a larger bank of durability data. To take advantage of this option, the manufacturer must have generated data from at least two engine families within a similar system subcategory to be able to generate manufacturer-specific similar system d.f.'s.

Data from any one durability data vehicle may be used only once. It would be inappropriate for a manufacturer to use similar system durability data to calculate its manufacturer-specific similar system d.f.'s, and then include the same data with the remaining durability data from all or its other systems to generate its manufacturer-specific general d.f.'s. This approach could result in inappropriately low general d.f.'s. Therefore, any durability data used in generating similar system d.f.'s can not be included in generating the manufacturer-specific general d.f.'s used to certify the manufacturer's remaining proven vehicle systems.

Chrysler stated that the definition of the means of calculating manufacturer-determined d.f.'s is unclear. Chrysler questioned the nature of the data to be included in the calculation of the manufacturer-specified assigned d.f.'s. EPA has clarified the regulations with regard to the following points. EPA intended that the manufacturer-specific average or 70th percentile d.f.'s be calculated using the same protocol used by EPA in calculating the EPA industry-wide assigned d.f.'s. Specifically, EPA includes the data from a durability-data vehicle only once. Therefore, carry over data are not repetitively included in the calculation. In addition, EPA calculates each constituent separately. Chrysler is correct that each manufacturer determines its own manufacturer-specific d.f.'s. Other manufacturers' data is not included in the calculation.

Chrysler asked if EPA assigned d.f.'s would be provided for manufacturers

¹ Proven emission control components or systems (and fuel metering systems) are components or systems that have completed full durability testing evaluation over a vehicle's useful life in some other certified engine family, or have completed bench or road testing demonstrated to be equal or more severe than certification mileage accumulation requirements. Alternatively, proven components or systems are those that are determined by EPA to be of comparable functional quality and manufactured using comparable materials and production techniques as components or systems which have been durability demonstrated in some other certified engine family. In addition, the components or systems must be employed in an operating environment (e.g., temperature, exhaust flow, etc.) similar to that experienced by the original components or systems in the original certified engine family.

² Unproven emission control systems are emission control components or systems (and fuel metering systems) that do not qualify as proven emission control systems.

³ Similar systems are all light-duty vehicles which use the same fuel (e.g., gasoline, diesel, etc.);

combustion cycle (i.e., two or four stroke); general type of fuel system (i.e., carburetor or fuel injection); general type of fuel system (i.e., carburetor or fuel injection); catalyst system (e.g., none, oxidation, three-way plus oxidation, three-way only, etc.); fuel control system (i.e., feedback or nonfeedback); secondary air system (i.e., equipped or not equipped); and EGR (i.e., equipped or not equipped).

who do not have sufficient data to calculate manufacturer-specific d.f.'s. As proposed, all LDV manufacturers with annual sales over 300 units must determine the assigned d.f.'s for exhaust emissions appropriate for their technology. However, for manufacturers who have not previously run two or more certification durability-data vehicles, the manufacturer need not establish the minimum acceptable d.f.'s. EPA will provide these values.

The level of durability demonstration will be affected by whether an emission component or system (or fuel metering system) is identified as "proven" or "unproven" technology. Olson stated that the proposed definition of "proven components" was too restrictive and would limit the introduction of new technology by small-volume manufacturers. GM and Olson stated that the definition of "proven components" GM and Olson stated that the definition of "proven components" should be expanded. GM and Olson indicated that those components validated using bench testing or road testing procedures that are equal to or more severe than certification durability should be included. Exploring this same issue, Chrysler questioned whether a system certified by the California Air Resources Board (CARB), or used for years on European and specialty type vehicles will be considered as falling within the category of "proven components or systems."

EPA has previously accepted properly designed bench or road tests to prove durability of components or systems under EPA's current d.f. program. However, the bench or road test testing was supported by certification durability data that correlated to the bench or road testing. EPA agrees that properly designed bench or road tests which include emission performance evaluations that are equal to or more severe than certification durability should be included in the definition of "proven components or systems." However, the manufacturer using other than certification durability to prove the durability of components or systems has the responsibility of demonstrating to EPA that the bench test or road test is equal to or more severe than certification durability.

The durability mileage accumulation requirements for CARB certification of new passenger cars (i.e., CARB's equivalent to EPA's LDV's) are the same as EPA durability mileage requirements. CARB requires that passenger cars complete the same certification mileage accumulation cycle (for 50,000 mile durability) as EPA. Therefore, EPA will

accept as "proven technology" components or systems completing CARB new passenger car full durability mileage accumulation requirements.

Finally, Chrysler suggested that EPA conduct a workshop to clarify the d.f. issues prior to revising the NPRM. EPA believes that the public hearing and comment period provided sufficient opportunity for commenters to identify their concerns to EPA. Further, EPA believes all of Chrysler's and other commenters' questions have now been adequately addressed and the d.f. issues adequately clarified in this final rule, eliminating the need for a workshop prior to implementation of these regulations.

C. Maintenance and Warranty Service

In this final rule, EPA is adopting the proposal as presented in the NPRM, that each small-volume manufacturer provide a statement to EPA at the time it requests certification affirming that it will have a qualified service facility⁴ and repair parts conveniently available,⁵ and it has provided the vehicle purchaser a list of emission and emission-related parts. The manufacturer must also notify the owner, at the time of sale, of the location of the nearest qualified service facility, if such service is not available at the authorized point of sale for its vehicles, and assure the purchaser that emission-related service parts will be available at or through these service locations. If an imported nonconforming vehicle is owned by the ultimate purchaser prior to modification under a certificate of conformity, the manufacturer (in this case the vehicle modifier) must notify the vehicle owner of the location of the qualified service facility and the availability of service parts at the time the modified vehicle is delivered to the vehicle owner. Finally, EPA is requiring that all manufacturers already required to have an insurance policy guaranteeing warranty service (40 CFR 85.1510), provide evidence of the fully-paid policy or proof of a contractual agreement to purchase insurance as a prerequisite to certification.

⁴ A qualified service facility is a service facility which has: vehicle maintenance instructions; trained service personnel; applicable tools and equipment, including special tools if required; and spare parts for the manufacturer's vehicles.

⁵ Conveniently available—For small-volume manufacturers, "conveniently available" means that the vehicle manufacturer has a qualified service facility at or near the authorized point of sale for its vehicle and maintains an inventory of all emission-related spare parts or has made arrangements for the part manufacturers to supply the parts by expedited shipment (e.g., utilizing overnight express delivery service, UPS, etc.).

The above requirements will not obligate a manufacturer to establish a network of service facilities throughout the manufacturer's state of residence or throughout the United States. At a minimum, the manufacturer, should have a qualified service facilities available at or near the point of sale or delivery of its vehicles. Service parts must be available at or through the service facility. The vehicle owner or other service facilities should be able to obtain service parts from or through the manufacturer's service facility by calling the manufacturer.

EPA expressed a concern in the NPRM that some small-volume manufacturers may not have sufficient incentives to provide adequate maintenance and warranty service. Further, without some additional incentive to these manufacturers to provide adequate service, EPA was concerned that the emission systems of some of these vehicles might not be properly maintained. EPA invited public comment on whether availability of service by small-volume manufacturers would be adequate to meet the warranty requirements of section 207(b) of the Clean Air Act. In the notice, EPA indicated that should comments from the regulated industry indicate that service and parts availability were a problem, in the final rule EPA would change the maintenance and service requirements to increase the likelihood that vehicle owners would be able to obtain proper maintenance and warranty service from small-volume manufacturers.

GM's comments on this issue indicate that it shares the concern that EPA expressed in the notice regarding the availability of maintenance and warranty service provided by small-volume manufacturers. Further, GM's comments support the proposed changes that are intended to assure the availability of maintenance and warranty service from small-volume manufacturers. No one else commented on the issue.

In light of the concerns raised by EPA in the NPRM along with GM's support and the lack of any opposing comments, EPA is promulgating the changes as proposed in the notice.

D. Vacuum Hose Routing Diagram

In this final rule, EPA is requiring that a vacuum hose routing diagram be included on each certified vehicle if the vehicle is equipped with vacuum actuated emission-related or emission-critical parts. The regulations being published today, as requested by Chrysler, Toyota, and VWoA, include

several modifications to be consistent with the majority of the CARB vacuum hose routing diagram requirements. The regulations include provisions that allow the manufacturer, at its option, to display the vacuum hose routing diagram on a permanent label separate from the emission control information label. Further, when a vehicle contains no vacuum-controlled emission or emission-related components, no vacuum diagram is required.

Toyota recommended that EPA allow the manufacturer to use a material of the manufacturer's choice for the separate label which may not meet the destructibility requirements applicable to the vehicle emission control information label. The California vacuum hose routing diagram labeling requirements allow the manufacturer to use a material for the separate label which does not meet the destructibility provisions that apply to the vehicle emission control information label. Currently, California and EPA require that the vehicle emission control information label be a permanent label affixed in such a manner that it cannot be removed without destroying or defacing the label (e.g., 40 CFR 86.088-35(a)(1) and (a)(1)(i)).

As stated in the NPRM, the vacuum hose routing diagram label will aid in-use vehicle inspection by making it easier for inspectors to verify that the emission control hardware is properly installed. Further, it will assist mechanics in checking their work for proper installation. A label which does not meet the destructibility requirements may be removed more easily from the vehicle thereby defeating the purpose of having the vacuum hose routing diagram label on the vehicle. Therefore, EPA concludes that, to accomplish the intended purpose, the label must be a permanent type which cannot be removed without defacing or destroying the label. Consequently, EPA is not adopting Toyota's recommendation in the final rule.

E. Aggregation

This final rule is adopting the three revisions proposed in the NPRM relating to the applicability of the small-volume manufacturer and engine family rules. The first revision clarifies EPA's current practice of evaluating each manufacturer's small volume certification status based on aggregated sales when one manufacturer owns 10% or more of another. The second revision extends the 10% ownership rule, applicable to two-party relationships, to relationships involving more than two parties (e.g., one manufacturer owns 10% or more of two or more firms). The third

revision extends EPA's current interpretation of corporate control of one manufacturer by another, for purposes of aggregation, to include all firms that have common corporate officers. These revisions, while not departing from EPA's existing policy regarding small-volume manufacturer aggregation, will provide a vehicle manufacturer with a clearer understanding of how various relationships with other manufacturers will affect its certification status.

EPA uses criteria such as the financial or managerial links between two or more firms to determine whether there is a sufficient level of interrelationship between these firms to warrant aggregation of their sales. When two or more firms are sufficiently interrelated, the combined total sales of the involved firms are used to determine the eligibility of each firm to utilize the small-volume certification program procedures. That is, EPA first uses the 10 percent threshold of ownership to determine whether the sales of the firms should be aggregated for purposes of applying the small-volume manufacturer rules. If so, after aggregating the sales, EPA then utilizes a second threshold (50 percent) to determine how many units may be certified by the aggregated relationship under the small-volume engine family procedures. EPA's general aggregation policy for small-volume manufacturers and small-volume engine families is described in EPA's Advisory Circular Number 51C. The following describes three specific cases in which this policy is implemented.

1. If a manufacturer purchases less than 50 percent of another manufacturer, each manufacturer retains its right to certify up to 10,000 units using small-volume certification procedures.

2. If a manufacturer purchases 50 percent or more of another manufacturer, both manufacturers must share the 10,000 units exempt from durability demonstration.

3. In a joint venture arrangement (50/50 ownership) between two manufacturers, each manufacturer retains its eligibility for up to 10,000 units under the small-volume certification procedures, but the joint venture must draw its maximum 10,000 units from the maximum of 20,000 units allocated to its parent manufacturers.

Under this policy, manufacturers can certify their small-volume sales using either the small-volume "manufacturer" or the small-volume "engine family" certification procedures. The total combined projected sales (i.e., the aggregated projected sales resulting from greater than 10 percent ownership)

of all involved manufacturers determines the certification procedures that each manufacturer may use. When the aggregated yearly sales do not exceed 300 units, each manufacturer in the relationship may certify all of its sales using the small-volume manufacturer certification provisions that are designated for manufacturers of less than 300 units per year. When the aggregated yearly sales are between 300 and 10,000 units, each manufacturer in the relationship may certify all of its sales using the small-volume manufacturer provisions that are designated for manufacturers of less than 10,000 units per year. When the percentage ownership of one manufacturer by another is less than 50 percent and the aggregated sales equal or exceed 10,000 units per year, each manufacturer in the relationship may still certify up to 9,999 units using small-volume engine family provisions. Only when the percentage ownership of one manufacturer by another is 50 percent or more and the aggregated sales exceed 9,999 units per year, are the involved manufacturers required to share the number of units allocated to the parent manufacturer to certify using the small-volume engine family provisions.

In this final rule, EPA is adopting the three proposed revisions to the regulations affecting aggregation criteria currently used to determine a manufacturer's eligibility for small-volume manufacturer status. The first revision clarifies in the regulations EPA's current method of applying aggregation criteria, and reads as follows: When one firm leases, operates, controls, supervises or in ten percent or greater part owns production facilities used by another manufacturer, then the combined sales of both manufacturers (or multiple manufacturers in the case of three or more) shall be used to determine the eligibility of each manufacturer to certify under the small-volume manufacturer rules. The second revision states when a third party has equity ownership of ten percent or more in two or more firms, the sales shall be aggregated. This provision is a natural extension of the previous regulations which specified that one firm will be aggregated with another if one of them owns ten percent or more of the other firm. The third revision states when two or more firms have common corporate officers who are responsible for the overall direction of the companies, the sales shall be aggregated. This provision acknowledges that common corporate officers constitute common control of the involved firms and is consistent with EPA's intent that sales of firms with

significant managerial links be aggregated. These regulation revisions are being finalized today to preclude possible misunderstanding of EPA's intent and application of aggregation criteria for small volume certification.

Some commenters to the NPRM are apparently concerned that EPA's proposal in the aggregation criteria will alter the Agency's current aggregation policy. However, the first provision of the proposal merely clarifies the current EPA interpretation of the aggregation criteria and should preclude possible misunderstandings. The second and third provisions are logical extensions of EPA's current intent and practice. These are potential cases that have not arisen to date, and thus do not represent a change to current aggregation practice; but, in fact, represent clearer guidance on how EPA will view such situations if and when they occur. GM commented that EPA should acknowledge in the final rule its established policy concerning the implementation of certification procedures for small-volume engine families as described in Advisory Circular No. 51C. EPA believes that this guidance is helpful to the manufacturers and has incorporated it into the final rule. Today's final rule does not change the Agency's current policy on the distribution and number of units that can be certified under the small-volume certification procedures by those manufacturers in the aggregated relationship.

Chrysler commented that the manner in which aggregated sales are determined by the notice is completely different from the way they are currently handled. Chrysler contended that the aggregated sales applies only to the manufacturer who owns a 10 percent or more interest in another manufacturer, not to all manufacturers in the agreement. Therefore, according to Chrysler, the remaining manufacturer(s) in the agreement does not have to include the sales of the owner in determining whether or not they meet the requirements of small-volume manufacturer status. However, Chrysler is not presenting an accurate assessment of EPA's current policy. EPA has always considered that each of the manufacturers involved in a multiple ownership agreement must consider the total combined sales of the involved parties for purposes of certifying. This does not represent a change in EPA's current policy on the aggregation criteria. The revised language of the regulation makes this clear. For example, assume that a large volume manufacturer purchases 15 percent of a small-volume manufacturer. Since the

large manufacturer owns greater than 10 percent of the small manufacturer, the small-volume manufacturer is no longer able to certify using the small-volume manufacturer rules. Each company may, however, certify any engine family (or combination of engine families) of less than 10,000 vehicles under the small-volume engine family certification procedures.

Chrysler, Ford, and Olson expressed concern that some small-volume manufacturer may be denied or considered not eligible to certify under the small-volume manufacturer certification procedure because a larger manufacturer (e.g., Chrysler, Ford, etc.) owns ten percent or more of the small-volume manufacturer. It is true that the small-volume manufacturer, with total annual sales not exceeding 300 units that is purchased in part (i.e., greater than 10 percent) by a large volume manufacturer could no longer use EPA assigned d.f.'s. However, the small manufacturer retains the right to certify up to and including 9,999 units under the small-volume engine family certification procedures. Likewise, the small-volume manufacturer with total sales between 300 and 10,000 units per year that is purchased in part (i.e., 10 percent or more) by a large volume manufacturer, while thereafter identified as a large volume manufacturer, retains its right to certify up to and including 9,999 units under the small-volume engine family provisions. Under these procedures, for example, EPA has certified a number of engine families that are manufactured by companies that do not qualify for small-volume manufacturer status.

Chrysler, Ford and Olson indicated that 10 percent ownership of a company does not constitute control. Ford also stated that 10 percent ownership by a third party does not constitute control. EPA established the 10 percent criterion in the 1981 small-volume rule which established the optional small-volume manufacturers certification procedures. The 10 percent criterion assured that the administrative and cost burdens associated with certification were reduced for independent small-volume manufacturers. The NPRM for today's rulemaking did not propose revising the criteria, only clarifying that both parties (the 10 percent owner and the company that is 10 percent owned) are to be considered aggregated when determining eligibility for small-volume manufacturer certification rules. EPA believes this clarification is appropriate and consistent with the original 1981 regulations which were designed to stop the inappropriate use of the small-volume manufacturer certification

procedures by manufacturers that are not independent. The clarification reasonably establishes a financial business link wherein each party could benefit from the other. No change in this criterion is appropriate based on the comments.

Ford commented that requiring aggregation of firms that share common corporate officer(s) is unworkable. For the purpose of defining which companies qualify for the optional small-volume manufacturer certification procedure, EPA believes that the common corporate officer(s) aggregation criterion adopted in this final rule is appropriate. This criterion would preclude approval for small-volume certification to an individual or company that, for example, establishes a number of small companies, each with annual sales less than 300, but with common corporate officers overseeing actual aggregated sales of over 300, in order to avoid any durability testing and in order to receive EPA assigned d.f.'s. Corporate officer information is reasonably available to the public and is appropriately used here to deter abuse of the small volume certification program.

F. Emission-Data Vehicle (EDV) Mileage Requirements

In this final rule, EPA is adopting the proposal to require all manufacturers to accumulate a minimum of 2,000 miles on EDV's (62 hours for catalyst-equipped heavy-duty engines) before certification testing.

The current certification procedures allow each manufacturer to determine the minimum amount of mileage accumulation required to stabilize the vehicle's emission performance. EPA proposed the minimum mileage accumulation to ensure that, in the future, the manufacturer does not choose to accumulate an inappropriately low mileage on EDV's. Due to a higher rate of catalyst efficiency loss during the early mileage operation of a new vehicle, testing that vehicle at an extremely low mileage could result in inappropriately low emission test results compared to a stabilized vehicle. By requiring a minimum mileage requirement before testing, EPA has greater assurance that the emission control system (including the catalyst system) has stabilized, thus allowing the manufacturer to properly project full useful life emissions from the low mileage test results.

The two commenters that addressed this proposal support it. Olson commented that Maserati has voluntarily adopted this practice for

several model years. As a result it represents no significant change in burden to Maserati. GM agreed with the proposal as stated in the NPRM. EPA is promulgating the minimum mileage/hours service accumulation as proposed in the NPRM.

G. Reduction in the Number of Required Emission-Data Vehicles

The current certification regulations require two EDV's for engine families certified under the small-volume engine family provisions by manufacturers whose annual sales exceed 10,000 units per year. In contrast, small-volume manufacturers are only required to complete one EDV per engine family. In today's final rule, EPA is adopting the proposal to reduce to one the number of EDV's required for engine families certified by larger manufacturers under the small-volume engine family certification regulations. For example, manufacturers previously certified under the small-engine family certification procedures will now only need to complete one EDV under this revision.

GM supported the proposed reduction in the number of EDV's required for engine families certified using assigned d.f.'s (systems exempted from using durability vehicles). No commenter opposed this proposal.

H. Worst Case Emission Data Vehicle Selection Criteria

In this final rule, EPA is adopting the proposal to standardize the worst-case EDV selection criteria. Previously, the small-volume manufacturer EDV selection criteria differed slightly from the EDV selection criteria applicable to larger manufacturers (e.g., heaviest (including options) vehicle weight versus heaviest equivalent test weight (including options, etc.). Standardization of the EDV selection criteria will reduce any confusion for the larger manufacturers certifying under the small-volume manufacturer certification procedures. In addition, the small-volume manufacturer should not be impacted by the change due to the limited number of vehicles in the manufacturer's product line. No comments were received on the proposed regulation language. That language is adopted as proposed in this final rule.

I. Other Comments

1. Olson recommended in its testimony at the public hearing and in its written comments to the public docket that EPA establish separate certification procedures for new manufacturers, both Independent Commercial Importers and original

equipment manufacturers, entering the certification process. The new manufacturers would be subject to the separate procedure for 5 years. Olson did not detail the nature of these separate certification procedures or how they would differ from the already established programs or the proposed revisions, but contended that the separate certification procedure would allow EPA to focus its attention on those new manufacturers.

EPA considered establishing separate certification procedures for new manufacturers during the early stages of development of the NPRM. However, EPA found no technical or legal basis for treating new manufacturers differently than any other manufacturer completing the certification process. Therefore, EPA did not propose separate certification procedures for new manufacturers. Despite EPA's request at the public hearing, Olson did not supply technical or legal justification to support its request. For these reasons EPA rejects Olson's recommendation.

2. Cummins recommended that EPA publish the EPA assigned d.f.'s at least 18 months before new emission standards (emission standards that force new technology) become effective. Cummins contends that the 18 months is necessary to allow manufacturers using EPA assigned d.f.'s to complete engine development and the certification process in a cost effective manner. Further, Cummins recommended that the d.f.'s remain in effect for the duration of the emission standards.

New emission standards that require new emission control technology occur very seldom. However, EPA realizes that in those cases it is important that manufacturers have sufficient lead time to develop the new technology. When necessary EPA has provided new technology assigned d.f.'s in a timely manner. When new, technology-forcing standards are adopted, EPA includes sufficient leadtime between promulgation and implementation to reasonably allow for product development and successful completion of the certification program. Also in a rulemaking establishing technology-forcing standards, EPA assesses the expected deterioration performance of the new technology. Since EPA relies on these rulemaking assessments for its assigned d.f.'s, manufacturers have ample notice of the d.f.'s. Nevertheless, in the future EPA plans to make clear in the rulemakings adopting technology-forcing standards the assigned d.f.'s which eligible manufacturers may use. This will continue to assure maximum leadtime in manufacturer notification.

In considering Cummins' proposal not to allow the EPA assigned d.f.'s to change over time, EPA concluded this would unnecessarily constrain the d.f.'s from being as up to date and representative as possible. EPA periodically assesses the representativeness of its assigned d.f.'s by evaluating actual durability information. If the assigned d.f.'s are not representative, EPA revises its assigned d.f.'s. EPA believes it would be inappropriate to leave in effect assigned d.f.'s that were developed based on an outdated technology assessment when the actual deterioration produced by vehicles or engines equipped with the technology produces different, either higher or lower, deterioration.

III. Regulatory Flexibility

The Regulatory Flexibility Act of 1980 requires federal agencies to identify potentially adverse impacts of federal regulations upon small entities. In instances where significant impacts are possible on a substantial number of these entities, agencies are required to perform a Regulatory Flexibility Analysis (RFA). EPA has determined that the certification revisions being finalized today will not have a significant impact on a substantial number of small-volume manufacturers.

EPA analyzed the potential impact of the durability requirements associated with the use of unproven emission control or fuel metering systems on the small-volume manufacturer prior to publishing the NPRM. At that time EPA estimated that less than 15 percent of the small-volume manufacturers may choose to use unproven emission control or fuel metering systems in the initial year these regulations are in effect. Once these unproven systems are initially evaluated, subsequent model years should see significantly fewer unproven systems certified. Therefore, this low incidence should not represent a significant number of small entities. Furthermore, EPA estimated that for those designs certified with unproven systems, the additional costs due to durability demonstration should not exceed 3 percent of the purchase price of an average vehicle for the initial model year. The durability requirements being finalized today are essentially the same as those proposed in the NPRM with one exception. Based on the comments received EPA has elected to include components that have been shown to be durable using appropriate road or bench testing procedures in the definition of proven components. The addition of alternative road or bench testing procedures as a method of

satisfying durability requirements may allow the manufacturer to use less costly durability demonstration procedures.

Therefore, based on the above discussion, the certification regulation revisions promulgated herein should not have a significant impact on a substantial number of small entities.

IV. Administrative Designation and Economic Impact

Section 3(b) of Executive Order 12291 requires EPA to determine whether a rule it intends to propose or to issue is a major rule and to prepare Regulatory Impact Analyses (RIA's) for all major rules. EPA has determined that this action is not a "major rule" requiring preparation of an RIA since it will not have an annual effect on the economy of \$100 million or more. Furthermore, it will not result in a major increase in industry costs or prices. Finally, this action will not have a significant adverse effect on industry, competition, employment, investment, productivity, innovation or the ability of domestic businesses to compete with vehicles produced by foreign companies since small-volume manufacturers are a small portion (less than one percent) of the total number of vehicles sold in the United States. Thus an RIA has not been prepared. Potential economic effects are addressed in an economic impact analysis (document

number II-B-3 in Public Docket A-85-30) which was prepared in accordance with RIA requirements.

V. OMB Review

This action was submitted to the Office of Management and Budget (OMB) for review as required by Executive Order 12291. Any written comments from OMB to EPA and any EPA written response to those comments are available for public inspection at Public Docket A-85-30 located in EPA's Central Docket Section (LE-131A), 401 M Street SW., Washington, DC 20460.

VI. Paperwork Reduction Act

The information collection requirements contained in this rule have been approved by the Office of Management and Budget (OMB) under the provisions of the Paperwork Reduction Act, 44 U.S.C. 3501 *et seq.* and have been assigned OMB control number 2060-0104.

Public reporting burden resulting from this rulemaking is estimated to be 360 hours per response (on average), including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this

collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503, marked "Attention: Desk Officer for EPA."

VII. Judicial Review

The final actions described in this notice are made under the authority of sections 202, 203, 206, 207, 208, 215 and 301(a) of the Clean Air Act and are nationally applicable. Under section 307(b)(1) of the Clean Air Act, judicial review may be sought only in the United States Court of Appeals for the District of Columbia.

Petitions for judicial review must be filed on or before April 30, 1990. Judicial review may not be obtained in subsequent enforcement proceedings.

VIII. List of Subjects in 40 CFR Part 86

Administrative practice and procedure, Air pollution control, Gasolines, Motor vehicles, Labeling, Motor vehicle pollution, Reporting and recordkeeping requirements.

Dated: February 3, 1990.

William K. Reilly,
Administrator.

APPENDIX—EXPLANATION OF SPECIFIC CHANGES

Section	Change	Reason
1. Part 86, Authority	None	
2. Add new § 86.092-1.	Revise language to specify year of applicability	To implement the following changes for the 1992 model year. First year regulations are applicable.
(a)	do	Do.
(b)	Revise language to include heavy-duty vehicles and vehicles or engines imported under 40 CFR 85.1505 and 40 CFR 85.1509.	To include all vehicle or engine categories in manufacturer's combined total sales.
(e)	Revise to include new definitions	To include definitions of proven and unproven emission control systems and conveniently available.
3. Add new § 86.092-2.	Revise language to include heavy-duty vehicles and all vehicles or engines imported under 40 CFR 85.1505 and 40 CFR 85.1509.	To include all vehicles or engines in manufacturer's combined total sales.
4. Add new § 86.092-14.	Revise language to specify aggregated relationships.	To define all relationships which cause manufacturer's sales to be combined with another manufacturer's.
(b)(1)	Added language specifying relationships which will result in aggregation	Do.
(b)(2)	do	Do.
(b)(2)(i)	do	Do.
(b)(2)(ii)	do	Do.
(b)(2)(iii)	do	Do.
(b)(2)(iv)	do	Do.
(b)(3)	Add language specifying certification procedures for aggregated relationships with total sales less than 301 units.	To define certification procedures for aggregated relationships.
(b)(4)	Add language specifying certification procedure for aggregated relationships with total sales of 301-9,999 units.	Do.
(b)(5)	Add language specifying certification procedure for aggregated relationships with total sales equal to or greater than 10,000 units.	Do.
(b)(4)(i)	do	Do.
(b)(4)(ii)	do	Do.
(b)(4)(iii)	do	Do.
(c)(7)(A)	Revised language to specify one emission-data test vehicle (engine) per engine family	Clarification.
(c)(7)(A)(1)	Revised language defining worst-case vehicle selection criteria	To be consistent with criteria contained in § 86.092-24(b).
(c)(7)(A)(2)	Revised language defining worst-case engine selection criteria	Do.
(c)(7)(B)	Revised language to include minimum service accumulation distance or time	To include new requirement of minimum service accumulation.
(c)(7)(C)	Revised language to identify new requirements	To include new durability requirements.
(c)(7)(C)(1)	Add language to define durability requirements for manufacturers with aggregated total sales less than 301 units per year and to define assigned deterioration factors provided by the Administrator.	To include new durability requirements and define assigned deterioration factors.
(c)(7)(C)(2)	Add language to define durability requirements for manufacturers with aggregated total sales of 301 through 9,999 units per year certifying light-duty vehicles equipped with proven emission control systems.	To include new durability requirements.
(c)(7)(C)(2)(i)	Add language to define calculation of manufacturer-determined assigned deterioration factors	Do.
(c)(7)(C)(2)(3)	Add language to define exhaust emissions durability requirements for manufacturers with aggregated total sales of 301 through 9,999 per year certifying light-duty vehicles equipped with unproven emission control systems.	Do.
(c)(7)(C)(4)	Add language to define durability requirements for light-duty vehicles, light-duty trucks, and heavy-duty vehicle evaporative emission and light-duty truck and heavy-duty engine exhaust emissions.	Do.
(c)(8)	Revised language to clarify maintenance requirements for durability-data vehicles or engines and maintenance instructions provided to vehicle or engine purchaser.	Clarification to make consistent § 86.090-25.
(c)(9)(i)	Redesignation of (c)(9) and added language to make section 26 of this subpart applicable	To incorporate mileage and service accumulation requirements.
(c)(9)(ii)	Added to continue nonapplicability of Section 27 of this subpart	Added due to redesignation of (c)(9).
(c)(11)(B)(1)	Added evaporative emission family name	Clarification.
(c)(11)(B)(2)	Added the word "carline."	Clarification.
(c)(11)(B)(1)(7)	Added the words "surface area" and "total precious metal loading."	Clarification.
(c)(11)(B)(1)(8)	Added language requiring submission of proof of insurance coverage required by 40 CFR 85.1510(b), if applicable.	New Requirement.
(c)(11)(B)(1)(7)	Added language requiring statement concerning maintenance facilities and emission and emission related service parts.	To include new requirement.
(c)(11)(B)(1)(E)	Added language requiring submission of information on manufacturer determined deterioration factors.	To include new requirement.
5. Add new § 86.092-24.	Deleted contents and reserve subparagraph	To implement the following changes for 1992 model year.
(e)(1)	Revised language to reference § 86.092-14	No longer required, requirements included in subparagraph (e)(2)
(e)(2)	do	To include new durability and emission-data test vehicle requirements consistent with § 86.092-14
6. Add new § 86.092-26.	do	To implement the following changes for the 1992 model year.

APPENDIX—EXPLANATION OF SPECIFIC CHANGES—Continued

Section	Change	Reason
(a)(3)(i)(A)	Add language to include minimum mileage requirements, and recording and reporting of vehicle mileage.	New requirement.
(a)(3)(i)(B)	do	Do.
(a)(3)(i)(C)	do	Do.
(a)(3)(ii)(A)	do	Do.
(a)(3)(ii)(B)	do	Do.
(a)(3)(ii)(C)	do	Do.
(b)(4)(i)(A)	do	Do.
(b)(4)(i)(B)	do	Do.
(b)(4)(i)(C)	do	Do.
(b)(4)(ii)(A)	do	Do.
(b)(4)(ii)(B)	do	Do.
(b)(4)(ii)(C)	do	Do.
(c)(4)	Added language specifying minimum service accumulation time for engines equipped with catalyst.	Do.
7. Add new § 86.092-35.	Added language to identify new requirement.	Do.
(a)(1)(iii)(I)	do	To implement the following changes in the 1992 model year.
(a)(1)(iii)(J)	do	To include requirement for vacuum hose routing diagram.
(a)(2)(iii)(L)	do	To include labeling requirement specified in 40 CFR 85.1510.
(a)(2)(iii)(M)	do	To include requirement for vacuum hose routing diagram.
(a)(3)(iii)(N)	do	To include labeling requirement specified in 40 CFR 85.1510.
(a)(4)(iii)(F)	do	To include labeling requirement specified in 40 CFR 85.1510.

For the reasons set forth in the preamble, 40 CFR part 86 is amended as follows.

PART 86—CONTROL OF AIR POLLUTION FROM NEW MOTOR VEHICLES AND NEW MOTOR VEHICLE ENGINES: CERTIFICATION AND TEST PROCEDURES

1. The authority citation for part 86 continues to read as follows:

Authority: Secs. 202, 203, 206, 207, 208, 215, and 301(a), Clean Air Act, as amended; 42 U.S.C. 7521, 7522, 7524, 7525, 7541, 7542, 7549, 7550, and 7601(a).

2. A new § 86.092-1, which is identical to § 86.090-1, except for revisions to paragraphs (a), (d), and (e), is added to read as follows:

§ 86.092-1 General applicability.

(a) The provisions of this subpart apply to 1992 and later model year new Otto-cycle and diesel light-duty vehicles, 1992 and later model year new Otto-cycle and diesel light-duty trucks, and 1992 and later model year new Otto-cycle and diesel heavy-duty engines.

(b) *Optional applicability.* A manufacturer may request to certify any heavy-duty vehicle of 10,000 pounds Gross Vehicle Weight Rating or less in accordance with the light-duty truck provisions. Heavy-duty engine or vehicle provisions do not apply to such a vehicle.

(c) [Reserved]

(d) *Alternative Durability Program.* For 1992 and later model year light-duty vehicles and light-duty trucks, a manufacturer may elect to participate in the Alternative Durability Program. This optional program provides an alternative method of determining exhaust emission control system durability.

The general procedures and a description of the programs are contained in § 86.085-13 and specific provisions on test vehicles and compliance procedures are contained in § 86.092-24 and § 86.091-28 respectively.

(e) *Small volume manufacturers.* Special certification procedures are available for any manufacturer whose projected combined U.S. sales of light-duty vehicles, light-duty trucks, heavy-duty vehicles, and heavy-duty engines in its product line (including all vehicles and engines imported under the provisions of 40 CFR 85.1505 and 40 CFR 85.1509) are fewer than 10,000 units for the model year in which the manufacturer seeks certification. To certify its product line under these optional procedures, the small-volume manufacturer must first obtain the Administrator's approval. The

manufacturer must meet the eligibility criteria specified in § 86.092-14(b) before the Administrator's approval will be granted. The small-volume manufacturer's certification procedures are described in § 86.092-14.

(f) *Optional procedures for determining exhaust opacity.* (1) The provisions of subpart I apply to tests which are performed by the Administrator, and optionally, by the manufacturer.

(2) Measurement procedures, other than that described in subpart I, may be used by the manufacturer provided the manufacturer satisfies the requirements of § 86.091-23(f).

(3) When a manufacturer chooses to use an alternative measurement procedure it has the responsibility to determine whether the results obtained by the procedure will correlate with the results which would be obtained from the measurement procedure in subpart I. Consequently, the Administrator will not routinely approve or disapprove any alternative opacity measurement procedure or any associated correlation data which the manufacturer elects to use to satisfy the data requirements for subpart I.

(4) If a confirmatory test(s) is performed and the results indicate there is a systematic problem suggesting that the data generated under an optional alternative measurement procedure do not adequately correlate with subpart I data, EPA may require that all certificates of conformity not already issued be based on data from subpart I procedures.

3. A new § 86.092-2 is added, to read as follows:

§ 86.092-2 Definitions.

The definitions of § 86.091-2 remain effective. The definitions listed in this section apply beginning with the 1992 model year.

(a) *Proven emission control systems* are emission control components or systems (and fuel metering systems) that have completed full durability testing evaluation over a vehicle's useful life in some other certified engine family, or have completed bench or road testing demonstrated to be equal or more severe than certification mileage accumulation requirements.

Alternatively, proven components or systems are those that are determined by EPA to be of comparable functional quality and manufactured using comparable materials and production techniques as components or systems which have been durability demonstrated in some other certified engine family. In addition, the components or systems must be

employed in an operating environment (e.g., temperature, exhaust flow, etc.) similar to that experienced by the original or comparable components or systems in the original certified engine family.

(b) *Unproven emission control systems* are emission control components or systems (and fuel metering systems) that do not qualify as proven emission control systems.

(c) *Similar systems* are engine, fuel metering and emission control system combinations which use the same fuel (e.g., gasoline, diesel, etc.), combustion cycle (i.e., two or four stroke), general type of fuel system (i.e., carburetor or fuel injection), catalyst system (e.g., none, oxidization, three-way plus oxidization, three-way only, etc.), fuel control system (i.e., feedback or non-feedback), secondary air system (i.e., equipped or not equipped) and EGR (i.e., equipped or not equipped).

(d) *Conveniently available service facility and spare parts* for small-volume manufacturers means that the vehicle manufacturer has a qualified service facility at or near the authorized point of sale or delivery of its vehicles and maintains an inventory of all emission-related spare parts or has made arrangements for the part manufacturers to supply the parts by expedited shipment (e.g., utilizing overnight express delivery service, UPS, etc.).

4. A new § 86.092-14 is added to read as follows:

§ 86.092-14 Small-volume manufacturers certification procedures.

(a) The small-volume manufacturers certification procedures described in paragraphs (b) and (c) of this section are optional. Small-volume manufacturers may use these optional procedures to demonstrate compliance with the general standards and specific emission requirements contained in this subpart.

(b)(1) The optional small-volume manufacturers certification procedures apply to light-duty vehicles, light-duty trucks, heavy-duty vehicles, and heavy-duty engines produced by manufacturers with U.S. sales, including all vehicles and engines imported under the provisions of 40 CFR 85.1505 and 40 CFR 85.1509 (for the model year in which certification is sought) of fewer than 10,000 units (Light-Duty Vehicles, Light-Duty Trucks, Heavy-Duty Vehicles and Heavy-Duty Engines combined).

(2) For the purpose of determining the applicability of paragraph (b)(1) of this section, the sales the Administrator shall use shall be the aggregate of the projected or actual sales of those vehicles and/or engines in any of the

groupings identified below in this subparagraph.

(i) Vehicles and/or engines produced by two or more firms, one of which is 10 percent or greater part owned by another;

(ii) Vehicles and/or engines produced by any two or more firms if a third party has equity ownership of 10 percent or more in each of the firms;

(iii) Vehicles and/or engines produced by two or more firms having a common corporate officer(s) who is(are) responsible for the overall direction of the companies;

(iv) Vehicles and/or engines imported or distributed by all firms where the vehicles and/or engines are manufactured by the same entity and the importer or distributor is an authorized agent of the entity.

(3) If the aggregated sales, as determined in paragraph (b)(2) of this section are less than 301 units, the manufacturers in the aggregated relationship may certify under the provisions in this section that apply to manufacturers with sales of less than 301 units.

(4) If the aggregated sales, as determined in paragraph (b)(2) of this section are greater than 300 but fewer than 10,000 units, the manufacturers in the aggregated relationship may certify under the provisions in this section that apply to manufacturers with sales from and including 301 through 9,999 motor vehicles and motor vehicles engines per year.

(5) If the aggregated sales, as determined in paragraph (b)(2) of this section are equal to or greater than 10,000 units, then the manufacturers involved in the aggregated relationship will be allowed to certify a number of units under the small-volume engine family certification procedures (40 CFR 86.092-24(e)) in accordance with the criteria identified below in this subparagraph.

(i) If a manufacturer purchases less than 50 percent of another manufacturer, each manufacturer retains its right to certify 9,999 units using the small-volume engine family certification procedures.

(ii) If a manufacturer purchases 50 percent or more of another manufacturer, the manufacturer with the over 50 percent interest must share, with the manufacturer it purchased, its 9,999 units under the small-volume engine family certification procedures.

(iii) In a joint venture arrangement (50/50 ownership) between two manufacturers, each manufacturer retains its eligibility for 9,999 units under the small-volume engine family certification procedures, but the joint

venture must draw its maximum 9,999 units from the units allocated to its parent manufacturers.

(c) Small-volume manufacturers shall demonstrate compliance with the applicable sections of this subpart. The appropriate model year of the following applicable sections shall be determined in accordance with § 86.084-4:

(1) Sections 86.092-1, 86.092-2, 86.090-3, 86.084-4, 86.090-5, 86.078-6, 86.078-7, and 86.090-8 through 86.090-11 of this subpart are applicable.

(2) Sections 86.080-12 of this subpart is not applicable.

(3) Section 86.085-13, 86.092-14, 86.084-15, and 86.085-20 of this subpart are applicable.

(4) Small-volume manufacturers shall include in their records all of the information that EPA requires in § 86.090-21 of this subpart. This information will be considered part of the manufacturer's application for certification. However, the manufacturer is not required to submit the information to the Administrator unless the Administrator requests it.

(5) Section 86.085-22 of this subpart is applicable except as noted below.

(i) Small-volume light-duty vehicle and light-duty truck manufacturers may satisfy the requirements of paragraph (e) of § 86.085-22 by including a statement of compliance on adjustable parameters in the application for certification. In the statement of compliance the manufacturer shall state that the limits, stops, seals, or other means used to inhibit adjustment have been designed to accomplish their intended purpose based on good engineering practice and past experience. If the vehicle parameter is adjustable the vehicle must meet emission standards with the parameter set any place within the adjustable range (Reference § 86.090-21 of this subpart).

(6) Section 86.090-23 of this subpart is applicable.

(7) Section 86.092-24 of this subpart is applicable except as noted below.

(i) Small-volume manufacturers may satisfy the requirements of paragraph (b) and (c) of § 86.092-24 of this subpart by:

(A) *Emission-data*—Selecting one emission-data test vehicle (engine) per engine family by the worst-case emissions criteria as follows:

(1) *Light-duty vehicles and light-duty trucks.* The manufacturer shall select the vehicle with the heaviest equivalent test weight (including options) within the engine family. Then within that vehicle the manufacturer shall select, in the order listed, the highest road load power, largest displacement, the transmission with the highest numerical

final gear ratio (including overdrive), the highest numerical axle ratio offered in the engine family, and the maximum fuel flow calibration.

(2) *Heavy-duty Otto-cycle engines.* The manufacturer shall select one emission-data engine first based on the largest displacement within the engine family. Then within the largest displacement the manufacturer shall select, in the order listed, highest fuel flow at the speed of maximum rated torque, the engine with the most advanced spark timing, no EGR or lowest EGR flow, and no air pump or lowest actual flow air pump.

(3) *Heavy-duty diesel engines.* The manufacturer shall select one emission-data engine based on the highest fuel feed per stroke, primarily at the speed of maximum rated torque and secondarily at rated speed.

(B) Testing light-duty vehicles or light-duty truck emission-data vehicles at any service accumulation distance of at least 2,000 miles (3,219 kilometers) or, catalyst equipped heavy-duty emission-data engines at any service accumulation time of at least 62 hours, or non-catalyst equipped heavy-duty engine emission-data engines at any service accumulation time determined by the manufacturer to result in stabilized emissions. The emission performance of the emission-data vehicle or engine must be stabilized prior to emission testing.

(C) *Durability data*—Satisfying the durability-data requirements by complying with the applicable procedures below:

(1) Manufacturers with aggregated sales of less than 301 motor vehicles and motor vehicle engines per year may use assigned deterioration factors that the Administrator determines and prescribes. The factors will be the Administrator's estimate, periodically updated and published in an advisory letter or advisory circular, of the 70th percentile deterioration factors calculated using the industrywide data base of previously completed durability-data vehicles or engines used for certification. However, the manufacturer may, at its option, accumulate miles (hours) on a durability-data vehicle (engine) and complete emission tests for the purpose of establishing its own deterioration factors.

(2) Manufacturers with aggregated sales from and including 301 through 9,999 motor vehicles and motor vehicle engines per year certifying light-duty vehicle exhaust emissions from vehicles equipped with proven emission control systems shall use assigned deterioration factors that the manufacturer determines based on its good

engineering judgment. However, the manufacturer may not use deterioration factors less than either the average or 70th percentile of all of that manufacturer's deterioration factor data, whichever is less. These minimum deterioration factors shall be calculated according to procedures in paragraph (c)(7)(i)(C)(2)(i), of this section. If the manufacturer does not have at least two data points to calculate these manufacturer specific average deterioration factors, then the deterioration factors shall be no less than the EPA supplied industrywide deterioration factors. However, the manufacturer may, at its option, accumulate miles on a durability-data vehicle and complete emission tests for the purpose of establishing its own deterioration factors.

(i) The manufacturer's minimum deterioration factors shall be calculated using the deterioration factors from all engine families, within the same vehicle/engine-fuel usage category (e.g., gasoline-fueled light-duty vehicle, etc.) previously certified to the same emission standards. The manufacturer shall use only deterioration factors engine families previously certified by the manufacturer and the deterioration factors shall not be included in the calculation more than once. The deterioration factors for each pollutant shall be calculated separately. The manufacturer may, at its option, limit the deterioration factors used in the calculation of the manufacturer's minimum deterioration factors to those from all similar systems to the system being certified if sufficient data (i.e., from at least two certified systems) exists. All data eligible to be grouped as similar system data shall be used in calculating similar system deterioration factors. Any deterioration factors used in calculating similar system deterioration factors shall not be included in calculating the manufacturer's minimum deterioration factors used to certify any of the manufacturer's remaining vehicle systems.

(3) Manufacturers with aggregated sales from 301 through 9,999 motor vehicles and motor vehicle engines and certifying light-duty vehicle exhaust emissions from vehicles equipped with unproven emission control systems shall use deterioration factors that the manufacturer determines from official certification durability data generated by vehicles from engine families representing a minimum of 25 percent of the manufacturer's sales equipped with unproven emission control systems. The sales projections are to be based on

total sales projected for each engine/system combination. The durability-data vehicle (engine) mileage accumulation and emission tests are to be conducted according to § 86.092-26 of this subpart. The manufacturer must develop deterioration factors by generating durability data in accordance with § 86.092-26 of this subpart on a minimum of 25 percent of the manufacturer's projected sales (by engine/system combination) that is equipped with unproven emission control systems. The manufacturer must complete the 25 percent durability requirement before the remainder of the manufacturer's sales equipped with unproven emission control systems is certified using manufacturer-determined assigned deterioration factors. Alternatively, any of these manufacturers may, at their option, accumulate miles on durability-data vehicles and complete emission tests for the purpose of establishing their own deterioration factors on the remaining sales.

(4) For light-duty vehicle, light-duty truck, and heavy-duty vehicle evaporative emissions and light-duty truck, and heavy-duty engine exhaust emissions, deterioration factors shall be determined in accordance with § 86.092-24 of this subpart.

(ii) Paragraphs (d) and (e) of § 86.092-24 of this subpart are not applicable.

(8) Section 86.090-25 of this subpart is applicable to maintenance performed on durability-data light-duty vehicles, light-duty trucks, heavy-duty vehicles, and heavy-duty engines when the manufacturer completes durability-data vehicles or engines; section 86.087-38 of this subpart is applicable to the recommended maintenance the manufacturer includes in the maintenance instructions furnished the purchasers of new motor vehicles and new motor vehicle engines under § 86.087-38 of this subpart.

(9)(i) Section 86.092-26 of this subpart is applicable if the manufacturer completes durability-data vehicles or engines.

(ii) Section 86.085-27 of this subpart is applicable.

(10) Sections 86.090-28 and 86.090-29 of this subpart are applicable.

(11)(i) Section 86.090-30 of this subpart is applicable, except for paragraph (a)(2) and (b) of that section. In the place of these paragraphs, small-volume manufacturer shall comply with paragraphs (c)(11)(ii) through (v) of this section, as shown below.

(ii) Small-volume manufacturers shall submit an application for certification containing the following:

(A) The names, addresses, and telephone numbers of the persons the manufacturer authorizes to communicate with us.

(B) A brief description of the vehicles (or engines) covered by the certificate (the manufacturers' sales data book or advertising, including specifications, may satisfy this requirement for most manufacturers). The description shall include, as a minimum, the following items as applicable:

(1) Engine evaporative family names and vehicle (or engine) configurations.

(2) Vehicle carlines or engine models to be listed on the certificate of conformity.

(3) The test weight and horsepower setting for each vehicle or engine configuration.

(4) Projected sales.

(5) Combustion cycle.

(6) Cooling mechanism.

(7) Number of cylinders.

(8) Displacement.

(9) Fuel system type.

(10) Number of catalytic converters, type, volume, composition, surface area, and total precious metal loading.

(11) Method of air aspiration.

(12) Thermal reactor characteristics.

(13) Suppliers' and/or manufacturers' name and model number of any emission related items of the above, if purchased from a supplier who uses the items in its own certified vehicles(s) or engine(s).

(14) A list of emission component part numbers.

(15) Drawings, calibration curves, and descriptions of emission related components, including those components regulated under paragraph (e) of § 86.085-22 of this subpart, and schematics of hoses and other devices connecting these components.

(16) Vehicle adjustments or modifications necessary for light-duty trucks to assure that they conform to high-altitude standards.

(17) A description of the light-duty vehicles and light-duty trucks which are exempted from the high-altitude emission standards.

(18) Proof that the manufacturer has obtained or entered an agreement to purchase, when applicable, the insurance policy, required by § 85.1510(b). The manufacturer may submit a copy of the insurance policy or purchase agreement as proof that the manufacturer has obtained or entered an agreement to purchase the insurance policy.

(C) The results of all emission tests the manufacturer performs to demonstrate compliance with the applicable standards.

(D)(7) The following statement signed by the authorized representative of the manufacturer: "The vehicles (or engines) described herein have been tested in accordance with (list of the applicable subparts A, B, D, I, M, N, or P) of part 86, title 40, United States Code of Federal Regulations, and on the basis of those tests are in conformance with that subpart. All of the data and records required by that subpart are on file and are available for inspection by the EPA Administrator. We project the total U.S. sales of vehicles (engines) subject to this subpart (including all vehicles and engines imported under the provisions of 40 CFR 85.1505 and 40 CFR 85.1509 to be fewer than 10,000 units."

(2) A statement as required by and contained in paragraph (c)(5) of this section signed by the authorized representative of the manufacturer.

(3) A statement that the vehicles or engines described in the manufacturer's application for certification are not equipped with auxiliary emission control devices which can be classified as a defeat device as defined in § 86.092-2 of this subpart.

(4) A statement of compliance with section 206(a)(3) of the Clean Air Act.

(5) A statement that, based on the manufacturer's engineering evaluation and/or emission testing, the light-duty vehicles comply with emission standards at high altitude unless exempt under paragraph (h) of § 86.090-8 of this subpart.

(6) A statement that, based on the manufacturer's engineering evaluation and/or emission testing, the light-duty trucks sold for principle use at designated high-altitude locations comply with the high-altitude emission requirements and that all other light-duty trucks are at least capable of being modified to meet high-altitude standards unless exempt under paragraph (g)(2) of § 86.090-9 of this subpart.

(7) A statement affirming that the manufacturer will provide a list of emission and emission-related service parts, including part number designations and sources of parts, to the vehicle purchaser for all emission and emission-related parts which might affect vehicle emission performance throughout the useful life of the vehicle. Secondly, it must state that qualified service facilities and emission-related repair parts will be conveniently available to serve its vehicles. In addition, if service facilities are not available at the point of sale or distribution, the manufacturer must indicate that the vehicle purchaser will be provided information identifying the closest authorized service facility to the point of sale, if in the United States, or

the closest authorized service facility to the point of distribution to the ultimate purchaser if the vehicle was purchased outside of the United States by the ultimate purchaser. Such information should also be made available to the Administrator upon request.

(E) Manufacturers utilizing deterioration factors determined by the manufacturer based on its good engineering judgment (re: paragraph (c)(7)(i)(C)(2) of this section) shall provide a description of the method(s) used by the manufacturer to determine the deterioration factors.

(iii) If the manufacturer meets requirements of this subpart, the Administrator will issue a certificate of conformity for the vehicles or engines described in the application for certification.

(iv) The certificate will be issued for such a period not to exceed one model year as the Administrator may determine and upon such terms as he may deem necessary to assure that any vehicle or engine covered by the certificate will meet the requirements of the Act and of this subpart.

(v)(A) If, after a review of the statements and descriptions submitted by the manufacturer, the Administrator determines that the manufacturer has not met the applicable requirements, the Administrator shall notify the manufacturer in writing of his intention to deny certification, setting forth the basis for his determination. The manufacturer may request a hearing on the Administrator's determination.

(B) If the manufacturer does not request a hearing or present the required information the Administrator will deny certification.

(12) Sections 86.079-31 and 86.079-32 of this subpart are not applicable.

(13) Under § 86.079-33 of this subpart, small-volume manufacturers are covered by the following.

(i) Small-volume manufacturers may make production changes (running changes) without receiving the Administrator's prior approval. The manufacturer shall assure (by conducting emission tests as it deems necessary) that the affected vehicles (engines) remain in compliance with the requirements of this part.

(ii) The manufacturer shall notify the Administrator within seven days after implementing any production related change (running change) that would affect vehicle emissions. This notification shall include any changes to the information required under paragraph (c)(11)(ii) of this section. The manufacturer shall also amend as necessary its records required under paragraph (c)(4) of this section to

confirm with the production design change.

(14) Section 86.082-34 of this subpart is not applicable.

(15) Sections 86.092-35, 86.079-36, 86.082-37, 86.087-38 and 86.084-39 of this subpart are applicable.

(Approved by the Office of Management and Budget under the control number 2060-0104)

5. A new § 86.092-24, which is identical to § 86.090-24, except for revisions to paragraphs (e)(1) and (e)(2), is added as follows.

§ 86.092-24 Test vehicles and engines.

(a)(1) The vehicles or engines covered by an application for certification will be divided into groupings of engines which are expected to have similar emission characteristics throughout their useful life. Each group of engines with similar emission characteristics shall be defined as a separate engine family.

(2) To be classed in the same engine family, engines must be identical in all the following respects:

(i) The cylinder bore center-to-center dimensions.

(ii)-(iii) [Reserved]

(iv) The cylinder block configuration (air cooled or water cooled; L-6, 90° V-8, etc.).

(v) The location of the intake and exhaust valves (or ports).

(vi) The method of air aspiration.

(vii) The combustion cycle.

(viii) Catalytic converter characteristics.

(ix) Thermal reactor characteristics.

(x) Type of air inlet cooler (e.g., intercoolers and after-coolers) for diesel heavy-duty engines.

(3)(i) Engines identical in all the respects listed in paragraph (a)(2) of this section may be further divided into different engine families if the Administrator determines that they may be expected to have different emission characteristics. This determination will be based upon a consideration of the following features of each engine:

(A) The bore and stroke.

(B) The surface-to-volume ratio of the nominally dimensioned cylinder at the top dead center positions.

(C) The intake manifold induction port size and configuration.

(D) The exhaust manifold port size and configuration.

(E) The intake and exhaust valve sizes.

(F) The fuel system.

(G) The camshaft timing and ignition or injection timing characteristics.

(ii) Light-duty trucks and heavy-duty engines produced in different model years and distinguishable in the respects

listed in paragraph (a)(2) of this section shall be treated as belonging to a single engine family if the Administrator requires it, after determining that the engines may be expected to have similar emission deterioration characteristics.

(4) Where engines are of a type which cannot be divided into engine families based upon the criteria listed in paragraphs (a)(2) and (a)(3) of this section, the Administrator will establish families for those engines based upon those features most related to their emission characteristics. Engines that are eligible to be included in the same engine family based on the criteria in paragraphs (a)(2) and (a)(3)(i) of this section may be further divided into different engine families if the manufacturer determines that they may be expected to have different emission characteristics. This determination will be based upon a consideration of the following features of each engine:

(i) The dimension from the center line of the crankshaft to the center line of the camshaft.

(ii) The dimension from the center line of the crankshaft to the top of the cylinder block head face.

(iii) The size of the intake and exhaust valves (or ports).

(5) The gasoline-fueled and methanol-fueled light-duty vehicles and light-duty trucks covered by an application for certification will be divided into groupings which are expected to have similar evaporative emission characteristics throughout their useful life. Each group of vehicles with similar evaporative emission characteristics shall be defined as a separate evaporative emission family.

(6) For gasoline-fueled or methanol-fueled light-duty vehicles and light-duty trucks to be classed in the same evaporative emission family, vehicles must be similar with respect to:

(i) Type of vapor storage device (e.g., canister, air cleaner, crankcase).

(ii) Basic canister design.

(iii) Fuel system.

(7) Where vehicles are of a type which cannot be divided into evaporative emission families based on the criteria listed above, the Administrator will establish families for those vehicles based upon the features most related to their evaporative emission characteristics.

(8)(i) If the manufacturer elects to participate in the Alternative Durability Program, the engine families covered by an application for certification shall be grouped based upon similar engine design and emission control system characteristics. Each of these groups shall constitute a separate engine family group.

(ii) To be classed in the same engine family group, engine families must contain engines identical in all of the following respects:

(A) The combustion cycle.

(B) The cylinder block configuration (air-cooled or water-cooled; L-6, V-8, rotary, etc.).

(C) Displacement (engines of different displacement within 50 cubic inches or 15 percent of the largest displacement and contained within a multi-displacement engine family will be included in the same engine family group).

(D) Catalytic converter usage and basic type (non-catalyst, oxidation catalyst only, three-way catalyst equipped).

(9) Engine families identical in all respects listed in paragraph (a)(8) of this section may be further divided into different engine family groups if the Administrator determines that they are expected to have significantly different exhaust emission control system deterioration characteristics.

(10) A manufacturer may request the Administrator to include in an engine family group, engine families in addition to those grouped under the provisions of paragraph (a)(8) of this section. This request must be accompanied by information the manufacturer believes supports the inclusion of these additional engine families.

(11) A manufacturer may combine into a single engine family group those light-duty vehicle and light-duty truck engine families which otherwise meet the requirements of paragraph (a)(8) through (a)(10) of this section.

(12) The vehicles covered by an application for certification equipped with gasoline-fueled and methanol-fueled heavy-duty engines will be divided into groupings of vehicles on the basis of physical features which are expected to affect evaporative emissions. Each group of vehicles with similar features shall be defined as a separate evaporative emission family.

(13) For gasoline-fueled or methanol-fueled heavy-duty vehicles to be classed in the same evaporative emission family, vehicles must be identical with respect to:

(i) Method of fuel/air metering (i.e., carburetion versus fuel injection).

(ii) Carburetor bowl fuel volume, within a 10 cc range.

(14) For vehicles equipped with gasoline-fueled and methanol-fueled heavy-duty engines to be classed in the same evaporative emission control system, vehicles must be identical with respect to:

(i) Method of vapor storage.

(ii) Method of carburetor sealing.

(iii) Method of air cleaner sealing.

(iv) Vapor storage working capacity, within a 20g range.

(v) Number of storage devices.

(vi) Method of purging stored vapors.

(vii) Method of venting the carburetor during both engine off and engine operation.

(viii) Liquid fuel hose material.

(ix) Vapor storage material.

(15) Where vehicles equipped with gasoline-fueled or methanol-fueled heavy-duty engines are types which cannot be divided into evaporative emission family-control system combinations based on the criteria listed above, the Administrator will establish evaporative emission family-control system combinations for those vehicles based on features most related to their evaporative emission characteristics.

(b) *Emission data*—(1) *Emission-data vehicles*. Paragraph (b)(1) of this section applies to light-duty vehicle and light-duty truck emission-data vehicles.

(i) Vehicles will be chosen to be operated and tested for emission data based upon engine family groupings. Within each engine family, one test vehicle will be selected based on the following criteria: The Administrator shall select the vehicle with the heaviest equivalent test weight (including options) within the family. Then within that vehicle the Administrator shall select, in the order listed, the highest road-load power, largest displacement, the transmission with the highest numerical final gear ratio (including overdrive), the highest numerical axle ratio offered in that engine family, and the maximum fuel flow calibration.

(ii) The Administrator shall select one additional test vehicle from within each engine family. The vehicle selected shall be the vehicle expected to exhibit the highest emissions of those vehicles remaining in the engine family. If all vehicles within the engine family are similar the Administrator may waive the requirements of this paragraph.

(iii) Within an engine family and exhaust emission control system, the manufacturer may alter any emission-data vehicle (or other vehicles such as including current or previous model year emission-data vehicles, fuel economy data vehicles, and development vehicles provided they meet emission-data vehicles' protocol) to represent more than one selection under paragraph (b)(1) (i), (ii), (iv), or (vii) of this section.

(iv) If the vehicles selected in accordance with paragraphs (b)(1) (i) and (ii) of this section do not represent each engine-system combination, then one vehicle of each engine-system combination not represented will be

selected by the Administrator. The vehicle selected shall be the vehicle expected to exhibit the highest emissions of those vehicles remaining in the engine family.

(v) For high-altitude exhaust emission compliance for each engine family, the manufacturer shall follow one of the following procedures:

(A) The manufacturer will select for testing under high-altitude conditions the vehicle expected to exhibit the highest emissions from the nonexempt vehicles selected in accordance with paragraphs (b)(1)(ii), (iii), and (iv) of this section or,

(B) In lieu of testing vehicles according to paragraph (b)(1)(v)(A) of this section, a manufacturer may provide a statement in its application for certification that, based on the manufacturer's engineering evaluation of such high-altitude emission testing as the manufacturer deems appropriate,

(1) That all light-duty vehicles not exempt under § 86.090-8(h) comply with the emission standards at high altitude; and

(2) That light-duty trucks sold for principal use at designated high-altitude locations comply with the high-altitude emission requirements and that all light-duty trucks sold at low altitude, which are not exempt under § 86.091-9(g)(2), are capable of being modified to meet high-altitude standards.

(vi) If 90 percent or more of the engine family sales will be in California, a manufacturer may substitute emission-data vehicles selected by the California Air Resources Board criteria for the selections specified in paragraphs (b)(1)(i), (ii), and (iv) of this section.

(vii)(A) Vehicles of each evaporative emission family will be divided into evaporative emission control systems.

(B) The Administrator will select the vehicle expected to exhibit the highest evaporative emissions, from within each evaporative family to be certified, from among the vehicles represented by the exhaust emission-data selections for the engine family, unless evaporative testing has already been completed on the vehicle expected to exhibit the highest evaporative emissions for the evaporative family as part of another engine family's testing.

(C) If the vehicles selected in accordance with paragraph (b)(1)(vii)(B) of this section do not represent each evaporative emission control system then the Administrator will select the highest expected evaporative emission vehicle from within the unrepresented evaporative system.

(viii) For high-altitude evaporative emission compliance for each evaporative emission family, the

manufacturer shall follow one of the following procedures:

(A) The manufacturer will select for testing under high-altitude conditions the one nonexempt vehicle previously selected under paragraphs (b)(1)(vii)(B) or (C) of this section which is expected to have the highest level of evaporative emissions when operated at high altitude or

(B) In lieu of testing vehicles according to paragraph (b)(1)(viii)(A) of this section, a manufacturer may provide a statement in its application for certification that based on the manufacturer's engineering evaluation of such high-altitude emission testing as the manufacturer deems appropriate,

(1) That all light-duty vehicles not exempt under § 86.090-8(h) comply with the emission standards at high altitude, and

(2) That light-duty trucks sold for principal use at designated high-altitude locations comply with the high-altitude emission requirements and that all light-duty trucks sold at low altitude, which are not exempt under § 86.091-9(g)(2), are capable of being modified to meet high-altitude standards.

(ix) Vehicles selected under paragraph (b)(1)(v)(A) of this section may be used to satisfy the requirements of (b)(1)(viii)(A) of this section.

(x) *Light-duty trucks only:* (A) The manufacturer may reconfigure any of the low-altitude emission-data vehicles to represent the vehicle configuration required to be tested at high altitude.

(B) The manufacturer is not required to test the reconfigured vehicle at low altitude.

(2) *Otto-cycle heavy-duty emission-data engines.* Paragraph (b)(2) of this section applies to Otto-cycle heavy-duty engines.

(i)-(ii) [Reserved]

(iii) The Administrator shall select a maximum of two engines within each engine family based upon features indicating that they may have the highest emission levels of the engines in the engine family as follows:

(A) The Administrator shall select one emission-data engine first based on the largest displacement within the engine family. Then within the largest displacement the Administrator shall select, in the order listed, highest fuel flow at the speed of maximum rated torque, the engine with the most advanced spark timing, no EGR or lowest EGR flow, and no air pump or lowest actual flow air pump.

(B) The Administrator shall select one additional engine, from within each engine family. The engine selected shall be the engine expected to exhibit the highest emissions of those engines

remaining in the engine family. If all engines within the engine family are similar the Administrator may waive the requirements of this paragraph.

(iv) If the engines selected in accordance with paragraph (b)(2)(ii) and (iii) of this section do not represent each engine displacement-exhaust emission control system combination, then one engine of each engine displacement-exhaust emission control system combination not represented shall be selected by the Administrator.

(v) Within an engine family/displacement/control system combination, the manufacturer may alter any emission-data engine (or other engine including current or previous model year emission-data engines and development engines provided they meet the emission-data engines' protocol) to represent more than one selection under paragraph (b)(2)(iii) of this section.

(3) *Diesel heavy-duty emission-data engines.* Paragraph (b)(3) of this section applies to diesel heavy-duty emission-data vehicles.

(i) Engines will be chosen to be run for emission data based upon engine family groupings. Within each engine family, the requirements of this paragraph must be met.

(ii) Engines of each engine family will be divided into groups based upon their exhaust emission control systems. One engine of each system combination shall be run for smoke emission data and gaseous emission data. Either the complete gaseous emission test or the complete smoke test may be conducted first. Within each combination, the engine that features the highest fuel feed per stroke, primarily at the speed of maximum rated torque and secondarily at rated speed, will usually be selected. If there are military engines with higher fuel rates than other engines in the same engine system combinations, then one military engine shall also be selected. The engine with the highest fuel feed per stroke will usually be selected.

(iii) The Administrator may select a maximum of one additional engine within each engine-system combination based upon features indicating that it may have the highest emission levels of the engines of that combination. In selecting this engine, the Administrator will consider such features as the injection system, fuel system, compression ratio, rated speed, rated horsepower, peak torque speed, and peak torque.

(iv) Within an engine family control system combination, the manufacturer may alter any emission-data engine (or other engine including current or

previous model year emission-data engines and development engines provided they meet the emission-data engines' protocol) to represent more than one selection under paragraph (b)(3)(ii) and (iii) of this section.

(c) *Durability data—(1) Light-duty vehicle durability-data vehicles.* Paragraph (c)(1) of this section applies to light-duty vehicle durability-data vehicles.

(i) A durability-data vehicle will be selected by the Administrator to represent each engine-system combination. The vehicle selected shall be of the engine displacement with the largest projected sales volume of vehicles with that control-system combination in that engine family and will be designated by the Administration as to transmission type, fuel system, inertia weight class, and test weight.

(ii) A manufacturer may elect to operate and test additional vehicles to represent any engine-system combination. The additional vehicles must be of the same engine displacement, transmission type, fuel system and inertia weight class as the vehicle selected for that engine-system combination in accordance with the provisions of paragraph (c)(1)(i) of this section. Notice of an intent to operate and test additional vehicles shall be given to the Administrator no later than 30 days following notification of the test fleet selection.

(2) *Light-duty trucks.* Paragraph (c)(2) of this section applies to vehicles, engines, subsystems, or components used to establish exhaust emission deterioration factors for light-duty trucks.

(i) The manufacturer shall select the vehicles, engines, subsystems, or components to be used to determine exhaust emission deterioration factors for each engine-family control system combination. Whether vehicles, engines, subsystems, or components are used, they shall be selected so that their emissions deterioration characteristics may be expected to represent those of in-use vehicles, based on good engineering judgment.

(ii) [Reserved]

(3) *Heavy-duty engines.* Paragraph (c)(3) of this section applies to engines, subsystems, or components used to establish exhaust emission deterioration factors for heavy-duty engines.

(i) The manufacturer shall select the engines, subsystems, or components to be used to determine exhaust emission deterioration factors for each engine-family control system combination. Whether engines, subsystems, or components are used, they shall be

selected so that their emissions deterioration characteristics may be expected to represent those of in-use engines, based on good engineering judgment.

(ii) [Reserved]

(d) For purposes of testing under § 86.092-26 (a)(9) or (b)(11), the Administrator may require additional emission-data vehicles (or emission-data engines) and durability-data vehicles (light-duty vehicles only) identical in all material respects to vehicles (or engines) selected in accordance with paragraphs (b) and (c) of this section. *Provided* That the number of vehicles (or engines) selected shall not increase the size of either the emission-data fleet or the durability-data fleet by more than 20 percent or one vehicle (or engine), whichever is greater.

(e)(1) [Reserved]

(2) Any manufacturer may request to certify engine families with combined total sales of fewer than 10,000 light-duty vehicles, light-duty trucks, heavy-duty vehicles, and heavy-duty engines utilizing the procedures contained in § 86.092-14 of this subpart for emission-data vehicle selection and determination of deterioration factors. The deterioration factors shall be applied only to entire engine families.

(f) In lieu of testing an emission-data or durability-data vehicle (or engine) selected under paragraph (b) or (c) of this section, and submitting data therefore, a manufacturer may, with the prior written approval of the Administrator, submit exhaust emission data and/or fuel evaporative emission data, as applicable on a similar vehicle (or engine) for which certification has previously been obtained or for which all applicable data required under § 86.091-23 has previously been submitted.

(g)(1) This paragraph applies to light-duty vehicles and light-duty trucks, but does not apply to the production vehicles selected under paragraph (h) of this section.

(2)(i) Where it is expected that more than 33 percent of a carline, within an engine-system combination, may be equipped with an item (whether that item is standard equipment or an option), the full estimated weight of that item shall be included in the curb weight computation of each vehicle available with that item in that carline, within that engine-system combination.

(ii) Where it is expected that 33 percent or less of the carline, within an engine-system combination, will be equipped with an item (whether that item is standard equipment or an option), no weight for that item will be

added in computing the curb weight for any vehicle in that carline, within that engine-system combination, unless that item is standard equipment on the vehicle.

(iii) In the case of mutually exclusive options, only the weight of the heavier option will be added in computing the curb weight.

(iv) Optional equipment weighing less than three pounds per item need not be considered.

(3)(i) Where it is expected that more than 33 percent of a carline, within an engine-system combination, will be equipped with an item (whether that item is standard equipment or an option) that can reasonably be expected to influence emissions, then such items shall actually be installed (unless excluded under paragraph (g)(3)(ii) of this section) on all emission-data and durability-data vehicles of that carline, within that engine-system combination, on which the items are intended to be offered in production. Items that can reasonably be expected to influence emissions are: air conditioning, power steering, power brakes, and other items determined by the Administrator.

(ii) If the manufacturer determines by test data or engineering evaluation that the actual installation of the optional equipment required by paragraph (g)(3)(i) of this section does not affect the emissions or fuel economy values, the optional equipment need not be installed on the test vehicle.

(iii) The weight of the options shall be included in the design curb weight and also be represented in the weight of the test vehicles.

(iv) The engineering evaluation, including any test data, used to support the deletion of optional equipment from test vehicles, shall be maintained by the manufacturer and shall be made available to the Administrator upon request.

(4) Where it is expected that 33 percent or less of a carline within an engine-system combination will be equipped with an item (whether that item is standard equipment or an option) that can reasonably be expected to influence emissions, that item shall not be installed on any emission-data vehicle or durability-data vehicle of that carline, within that engine-system combination, unless that item is standard equipment on that vehicle or specifically required by the Administrator.

(h) *Alternative Durability Program durability-data vehicles.* This section applies to light-duty vehicle and light-duty truck durability-data vehicles selected under the Alternative

Durability Program described in § 86.085-13.

(1) To update the durability data to be used to determine a deterioration factor for each engine family group, the Administrator will select durability-data vehicles from the manufacturer's production line. Production vehicles will be selected from each model year's production for those vehicles certified using the Alternative Durability Program procedures.

(i) The Administrator shall select the production durability-data vehicle designs from the designs that the manufacturer offers for sale. For each model year and for each engine family group, the Administrator may select production durability-data vehicle designs of equal number to the number of engine families within the engine family group, up to a maximum of three vehicles.

(ii) The production durability-data vehicles representing the designs selected in paragraph (h)(1)(i) of this section will be randomly selected from the manufacturer's production. The Administrator will make these random selections unless the manufacturer (with prior approval of the Administrator) elects to make the random selections.

(iii) The manufacturer may select additional production durability-data vehicle designs from within the engine family group. The production durability-data vehicles representing these designs shall be randomly selected from the manufacturer's production in accordance with paragraph (h)(1)(ii) of this section.

(iv) For each production durability-data vehicle selected under paragraph (h)(1) of this section, the manufacturer shall provide to the Administrator (before the vehicle is tested or begins service accumulation) the vehicle identification number. Before the vehicle begins service accumulation the manufacturer shall also provide the Administrator with a description of the durability-data vehicle as specified by the Administrator.

(v) In lieu of testing a production durability-data vehicle selected under paragraph (h)(1) of this section, and submitting data therefrom, a manufacturer may, with the prior written approval of the Administrator, submit exhaust emission data from a production vehicle of the same configuration for which all applicable data has previously been submitted.

(2) If, within an existing engine family group, a manufacturer requests to certify vehicles of a new design, engine family, emission control system, or with any other durability-related design difference, the Administrator will

determine if the existing engine family group deterioration factor is appropriate for the new design. If the Administrator cannot make this determination or deems the deterioration factor not appropriate, the Administrator shall select preproduction durability-data vehicles under the provisions of paragraph (c) of this section. If vehicles are then certified using the new design, the Administrator may select production vehicles with the new design under the provisions of paragraph (h)(1) of this section.

(3) If a manufacturer requests to certify vehicles of a new design that the Administrator determines are a new engine family group, the Administrator shall select preproduction durability-data vehicles under the provisions of paragraph (c) of this section. If vehicles are then certified using the new design, the Administrator may select production vehicles of that design under the provisions of paragraph (h)(1) of this section.

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6. A new § 86.092-26, which is identified to section 86.090-26, except for revisions to paragraph (a)(3)(i)(A), (a)(3)(i)(B), (a)(3)(i)(C), (a)(3)(ii)(A), (a)(3)(ii)(B), (a)(3)(ii)(C), (b)(4)(i)(A), (b)(4)(i)(B), (b)(4)(i)(C), (b)(4)(ii)(A), (b)(4)(ii)(B), (b)(4)(ii)(C), and (c)(4) is added as follows:

§ 86.092-26 Mileage and service accumulation; emission measurements.

(a)(1) Paragraph (a) of this section applies to light-duty vehicles.

(2) The procedure for mileage accumulation will be the Durability Driving Schedule as specified in Appendix IV to this part. A modified procedure may also be used if approved in advance by the Administrator. Except with the advance approval of the Administrator, all vehicles will accumulate mileage at a measured curb weight which is within 100 pounds of the estimated curb weight. If the loaded vehicle weight is within 100 pounds of being included in the next higher inertia weight class as specified in § 86.129, the manufacturer may elect to conduct the respect emission tests at higher loaded vehicle weight.

(3) *Emission-data vehicles.* Unless otherwise provided for in § 86.091-23(a), emission-data vehicles shall be operated and tested as follows:

(i) *Otto-cycle.* (A) The manufacturer shall determine, for each engine family, the mileage at which the engine-system combination is stabilized for emission-data testing. The manufacturer shall maintain, and provide to the

Administrator if requested, a record of the rationale used in making this determination. The manufacturer may elect to accumulate 4,000 miles on each test vehicle within an engine family without making a determination. The manufacturer must accumulate a minimum of 2,000 miles (3,219 kilometers) on each test vehicle within an engine family. All test vehicle mileage must be accurately determined, recorded, and reported to the Administrator. Any vehicle used to represent emission-data vehicle selections under § 86.092-24(b)(1) shall be equipped with an engine and emission control system that has accumulated the mileage the manufacturer chose to accumulate on the test vehicle. Fuel economy data generated from certification vehicles selected in accordance with § 86.092-24(b)(1) with engine-system combinations that have accumulated more than 10,000 kilometers (6,200 miles) shall be factored in accordance with § 600.006-87(c). Complete exhaust and evaporative (if required) emission tests shall be conducted for each emission-data vehicle selection under § 86.092-24(b)(1). The Administrator may determine under § 86.092-24(f) that no testing is required.

(B) Emission tests for emission-data vehicle(s) selected for testing under § 86.092-24(b)(1)(v) or (viii) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing under high-altitude conditions.

(C) Exhaust and evaporative emissions tests for emission-data vehicle(s) selected for testing under § 86.092-24(b)(1) (i), (ii), (iii), (iv), or (vii)(B) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing under low-altitude conditions.

(D) For each engine family, the manufacturer will either select one vehicle previously selected under § 86.092-24(b)(1) (i) through (iv) to be tested under high-altitude conditions or provide a statement in accordance with § 86.092-24(b)(1)(v). Vehicles shall meet emission standards under both low- and high-altitude conditions without manual adjustments or modifications. In addition, any emission control device used to conform with the emission standards under high-altitude conditions shall initially actuate (automatically) no higher than 4,000 feet above sea level.

(ii) *Diesel.* (A) The manufacturer shall determine, for each engine family, the mileage at which the engine-system combination is stabilized for emission-data testing. The manufacturer shall

maintain, and provide to the Administrator if requested, a record of the rationale used in making this determination. The manufacturer may elect to accumulate 4,000 miles on each test vehicle within an engine family without making a determination. The manufacturer must accumulate a minimum of 2,000 miles (3,219 kilometers) on each test vehicle within an engine family. All test vehicle mileage must be accurately determined, recorded, and reported to the Administrator. Any vehicle used to represent emission-data vehicle selections under § 86.092-24(b)(1) shall be equipped with an engine and emission control system that has accumulated the mileage the manufacturer chose to accumulate on the test vehicle. Fuel economy data generated from certification vehicles selected in accordance with § 86.092-24(b)(1) with engine-system combinations that have accumulated more than 10,000 kilometers (6,200 miles) shall be factored in accordance with § 600.006-87(c). Complete exhaust emission tests shall be conducted for each emission-data vehicle selection under § 86.092-24(b)(1). The Administrator may determine under § 86.092-24(f) that no testing is required.

(B) Emission tests for emission-data vehicle(s) selected for testing under § 86.092-24(b)(1)(v) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing under high-altitude conditions.

(C) Exhaust and evaporative emissions tests for emission-data vehicle(s) selected for testing under § 86.092-24(b)(1) (i), (ii), (iii), (iv), or (vii)(B) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing under low-altitude conditions.

(D) For each engine family, the manufacturer will either select one vehicle previously selected under § 86.092-24(b)(1) (i) through (iv) to be tested under high-altitude conditions or provide a statement in accordance with § 86.092-24(b)(1)(v). Vehicles shall meet emission standards under both low- and high-altitude conditions without manual adjustments or modifications. In addition, any emission control device used to conform with the emission standards under high-altitude conditions shall initially actuate (automatically) no higher than 4,000 feet above sea level.

(4)(i) *Durability data vehicles.* (A) Unless otherwise provided for in § 86.091-23(a), each durability-data vehicle shall be driven, with all emission control systems installed and operating, for 50,000 miles or such lesser distance

as the Administrator may agree to as meeting the objective of this procedure.

(B) Complete exhaust emission tests shall be made at test point mileage intervals that the manufacturer determines.

(C) At a minimum, two complete exhaust emission tests shall be made. The first test shall be made at a distance not greater than 6,250 miles. The last shall be made at 50,000 miles.

(D) The mileage interval between test points must be of equal length except for the interval between zero miles and the first test, and any interval before or after testing conducted in conjunction with vehicle maintenance as specified in § 86.090-25(g)(2).

(i) The manufacturer may, at its option, alter the durability-data vehicle at the selected test point to represent emission-data vehicle(s) within the same engine-system combination and perform emission tests on the altered vehicle. Upon completion of emission testing, the manufacturer may return the test vehicle to the durability-data vehicle configuration and continue mileage accumulation.

(5)(i) All tests required by this subpart on emission-data vehicles shall be conducted at a mileage equal to or greater than the mileage the manufacturer determines under paragraph (a)(3) of this section.

(ii) All tests required by this subpart on durability-data vehicles shall be conducted within 250 miles of each of the test points.

(6)(i)(A) The manufacturer may conduct multiple tests at any test point at which the data are intended to be used in the deterioration factor. At each test point where multiple tests are conducted, the test results from all valid tests shall be averaged to determine the data point to be used in the deterioration factor calculation, except under paragraph (a)(6)(i)(B) of this section. The test results from emission tests performed before maintenance affecting emissions shall not be averaged with test results after the maintenance.

(B) The manufacturer is not required to average multiple tests if the manufacturer conducts no more than three tests at each test point and if the number of tests at each test point is equal. All test points must be treated the same for all exhaust pollutants.

(ii) The results of all emission testing shall be supplied to the Administrator. The manufacturer shall furnish to the Administrator explanation for voiding any test. The Administrator will determine if voiding the test was appropriate based upon the explanation given by the manufacturer for the voided

test. Tests between test points may be conducted as required by the Administrator. Data from all tests (including voided tests) may be submitted weekly to the Administrator, but shall be air posted or delivered to the Administrator within 7 days after completion of the test. In addition, all test data shall be compiled and provided to the Administrator in accordance with § 86.091-23. Where the Administrator conducts a test on a durability-data vehicle at a prescribed test point, the results of that test will be used in the calculation of the deterioration factor.

(iii) The results of all emission tests shall be rounded, using the "Rounding Off Method" specified in ASTM E 29-67, to the number of places to the right of the decimal point indicated by expressing the applicable emission standard of this subpart to one additional significant figure.

(7) Whenever a manufacturer intends to operate and test a vehicle which may be used for emission or durability data, the manufacturer shall retain in its records all information concerning all emissions tests and maintenance, including vehicle alterations to represent other vehicle selections. For emission-data vehicles, this information shall be submitted, including the vehicle description and specification information required by the Administrator, to the Administrator following the emission-data test. For durability-data vehicles, this information shall be submitted following the 5,000-mile test.

(8) Once a manufacturer submits the information required in paragraphs (a)(7) of this section for a durability-data vehicle, the manufacturer shall continue to run the vehicle to 50,000 miles, and the data from the vehicle will be used in the calculations under § 86.091-28. Discontinuation of a durability-data vehicle shall be allowed only with the consent of the Administrator.

(9)(i) The Administrator may elect to operate and test any test vehicle during all or any part of the mileage accumulation and testing procedure. In such cases, the manufacturer shall provide the vehicle(s) to the Administrator with all information necessary to conduct this testing.

(ii) The test procedures in §§ 86.106 through 86.145 will be followed by the Administrator. The Administrator will test the vehicles at each test point. Maintenance may be performed by the manufacturer under such conditions as the Administrator may prescribe.

(iii) The data developed by the Administrator for the engine-system combination shall be combined with any

applicable data supplied by the manufacturer on other vehicles of that combination to determine the applicable deterioration factors for the combination. In the case of a significant discrepancy between data developed by the Administrator and that submitted by the manufacturer, the Administrator's data shall be used in the determination of deterioration factors.

(10) Emission testing of any type with respect to any certification vehicle other than that specified in this part is not allowed except as such testing may be specifically authorized by the Administrator.

(11) This section does not apply to testing conducted to meet the requirements of § 86.091-23(b)(2).

(b)(1) Paragraph (b) of this section applies to light-duty trucks.

(2) There are three types of mileage or service accumulation applicable to light-duty trucks:

(i) Mileage or service accumulation on vehicles, engines, subsystems, or components selected by the manufacturer under § 86.092-24(c)(2)(i). The manufacturer determines the form and extent of this mileage or service accumulation, consistent with good engineering practice, and describes it in the application for certification.

(ii) Mileage accumulation of the duration selected by the manufacturer on emission-data vehicles selected under § 86.092-24(b)(1). The procedure for mileage accumulation will be the Durability Driving Schedule as specified in Appendix IV to this part. A modified procedure may also be used if approved in advance by the Administrator. Except with the advance approval of the Administrator, all vehicles will accumulate mileage at a measured curb weight which is within 100 pounds of the estimated curb weight. If the loaded vehicle weight is within 100 pounds of being included in the next higher inertia weight class as specified in § 86.129, the manufacturer may elect to conduct the respective emission tests at the test weight corresponding to the higher loaded vehicle weight.

(iii) Service or mileage accumulation which may be part of the test procedures used by the manufacturer to establish evaporative emission deterioration factors.

(3) Exhaust emission deterioration factors will be determined on the basis of the mileage or service accumulation described in paragraph (b)(2)(i) of this section and related testing, according to the manufacturer's procedures.

(4) Each emission-data vehicle shall be operated and tested as follows:

(i) *Otto-cycle*. (A) The manufacturer shall determine, for each engine family,

the mileage at which the engine-system combination is stabilized for emission-data testing. The manufacturer shall maintain, and provide to the Administrator if requested, a record of the rationale used in making this determination. The manufacturer may elect to accumulate 4,000 miles on each test vehicle within an engine family without making a determination. The manufacturer must accumulate a minimum of 2,000 miles (3,219 kilometers) on each test vehicle within an engine family. All test vehicle mileage must be accurately determined, recorded, and reported to the Administrator. Any vehicle used to represent emission-data vehicle selections under § 86.092-24(b)(1) shall be equipped with an engine and emission control system that has accumulated the mileage the manufacturer chose to accumulate on the test vehicle. Fuel economy data generated from certification vehicles selected in accordance with § 86.092-24(b)(1) with engine-system combinations that have accumulated more than 10,000 kilometers (6,200 miles) shall be factored in accordance with § 600.006-87(c). Complete exhaust emission tests shall be conducted for each emission-data vehicle selection under § 86.092-24(b)(1). The Administrator may determine under § 86.092-24(f) that no testing is required.

(B) Emission tests for emission-data vehicle(s) selected for testing under § 86.092-24 (b)(1)(v) or (b)(1)(viii) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing or at 6,436 kilometers (4,000 miles) under high-altitude conditions.

(C) Exhaust and evaporative emission tests for emission-data vehicle(s) selected for testing under § 86.092-24(b)(1) (ii), (iii), (iv)(A), or (vii)(B) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing or at 6,436 kilometer (4,000 mile) test point under low-altitude conditions.

(D) If the manufacturer recommends adjustments or modifications in order to conform to emission standards at high altitude, such adjustments or modifications shall be made to the test vehicle selected under § 86.092-24(b)(1) (v) and (viii) (in accordance with the instructions to be provided to the ultimate purchaser) before being tested under high-altitude conditions.

(ii) *Diesel*. (A) The manufacturer shall determine, for each engine family, the mileage at which the engine-system combination is stabilized for emission-data testing. The manufacturer shall maintain, and provide to the

Administrator if requested, a record of the rationale used in making this determination. The manufacturer may elect to accumulate 4,000 miles on each test vehicle within an engine family without making a determination. The manufacturer must accumulate a minimum of 2,000 miles (3,219 kilometers) on each test vehicle within an engine family. All test vehicle mileage must be accurately determined, recorded, and reported to the Administrator. Any vehicle used to represent emission-data vehicle selections under § 86.092-24(b)(1) shall be equipped with an engine and emission control system that has accumulated the mileage the manufacturer chose to accumulate on the test vehicle. Fuel economy data generated from certification vehicles selected in accordance with § 86.092-24(b)(1) with engine-system combinations that have accumulated more than 10,000 kilometers (6,200 miles) shall be factored in accordance with § 600.006-87(c). Complete exhaust emission tests shall be conducted for each emission-data vehicle selection under § 86.092-24(b)(1). The administrator may determine under § 86.092-24(f) that no testing is required.

(B) Emission tests for emission-data vehicle(s) selected for testing under § 86.092-24 (b)(1)(v) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing or at the 6,436 kilometer (4,000 mile) test point under high-altitude conditions.

(C) Exhaust and evaporative emission tests for emission-data vehicle(s) selected for testing under § 86.092-24 (b)(1) (ii), (iii), and (iv) shall be conducted at the mileage (2,000 mile minimum) at which the engine-system combination is stabilized for emission testing or at the 6,436 kilometer (4,000 mile) test point under low-altitude conditions.

(D) If the manufacturer recommends adjustments or modifications in order to conform to emission standards at high-altitude, such adjustments or modifications shall be made to the test vehicle selected under § 86.092-24(b)(1) (v) and (viii) (in accordance with the instructions to be provided to the ultimate purchaser) before being tested under high-altitude conditions.

(iii) [Reserved]

(iv) All tests required by this subpart on emission-data vehicles shall be conducted at a mileage equal to or greater than the mileage the manufacturer determines under paragraph (b)(4) of this section.

(c)(1) Paragraph (c) of this section applies to heavy-duty engines.

(2) There are two types of service accumulation applicable to heavy-duty engines:

(i) Service accumulation on engines, subsystems, or components selected by the manufacturer under § 86.092-24(c)(3)(i). The manufacturer determines the form and extent of this service accumulation, consistent with good engineering practice, and describes it in the application for certification.

(ii) Dynamometer service accumulation on emission-data engines selected under § 86.092-24 (b)(2) or (b)(3). The manufacturer determines the engine operating schedule to be used for dynamometer service accumulation, consistent with good engineering practice. A single engine operating schedule shall be used for all engines in an engine family-control system combination. Operating schedules may be different for different combinations.

(3) Exhaust emission deterioration factors will be determined on the basis of the service accumulation described in paragraph (b)(2)(i) of this section and related testing, according to the manufacturer's procedures.

(4) The manufacturer shall determine, for each engine family, the number of hours at which the engine system combination is stabilized (no less than 62 hours for catalyst equipped) for emission-data testing. The manufacturer shall maintain, and provide to the Administrator if requested a record of the rationale used in making this determination. The manufacturer may elect to accumulate 125 hours on each test engine within an engine family without making a determination. Any engine used to represent emission-data engine selections under § 86.092-24(b)(2) shall be equipped with an engine system combination that has accumulated at least the number of hours determined under this paragraph. Complete exhaust emission tests shall be conducted for each emission-data engine selection under § 86.092-24(b)(2). Evaporative emission controls need not be connected provided normal operating conditions are maintained in the engine induction system. The Administrator may determine under § 86.092-24(f) that no testing is required.

(d)(1) Paragraph (d) of this section applies to both light-duty trucks and heavy-duty engines.

(2)(i) The results of all emission testing shall be supplied to the Administrator. The manufacturer shall furnish to the Administrator explanation for voiding any test. The Administrator will determine if voiding the test was appropriate based upon the explanation

given by the manufacturer for the voided test. Tests between test points may be conducted as required by the Administrator. Data from all tests (including voided tests) may be submitted weekly to the Administrator, but shall be air posted or delivered to the Administrator within 7 days after completion of the test. In addition, all test data shall be compiled and provided to the Administrator in accordance with § 86.092-23. Where the Administrator conducts a test on a durability-data vehicle at a prescribed test point, the results of that test will be used in the calculation of the deterioration factor.

(ii) The results of all emission tests shall be recorded and reported to the Administrator. These test results shall be rounded, in accordance with ASTM E 29-67, to the number of decimal places contained in the applicable emission standard expressed to one additional significant figure.

(3) Whenever a manufacturer intends to operate and test a vehicle (or engine) which may be used for emission data, the manufacturer shall retain in its records all information concerning all emissions tests and maintenance, including vehicle (or engine) alterations to represent other vehicle (or engine) selections. This information shall be submitted, including the vehicle (or engine) description and specification information required by the Administrator, to the Administrator following the emission-data test.

(4)-(5) [Reserved]

(6) Emission testing of any type with respect to any certification vehicle or engine other than that specified in this subpart is not allowed except as such testing may be specifically authorized by the Administrator.

(Approved by the Office of Management and Budget under the control number 2060-0104)

7. A new § 86.092-35 is added to read as follows:

§ 86.092-35 Labeling.

(a) The manufacturer of any motor vehicle (or motor vehicle engine) subject to the applicable emission standards (and family emission limits, as appropriate) of this subpart, shall, at the time of manufacture, affix a permanent legible label, of the type and in the manner described below, containing the information hereinafter provided, to all production models of such vehicles (or engines) available for sale to the public and covered by a certificate of conformity under § 86.091-30(a).

(1) *Light-duty vehicles.* (i) A permanent, legible label shall be affixed, in a readily visible position in the engine compartment.

(ii) The label shall be affixed by the vehicle manufacturer who has been issued the certificate of conformity for such vehicle, in such manner that it cannot be removed without destroying or defacing the label. The label shall not be affixed to any equipment which is easily detached from such vehicle.

(iii) The label shall contain the following information lettered in the English language in block letters and numerals, which shall be of a color that contrasts with the background of the label:

(A) The label heading: Vehicle Emission Control Information;

(B) Full corporate name and trademark of manufacturer;

(C) Engine displacement (in cubic inches or liters), engine family identification and evaporative family identification;

(D) Engine tune-up specifications and adjustments, as recommended by the manufacturer in accordance with the applicable emission standards (or family emission limits, as applicable), including but not limited to idle speeds(s), ignition timing, the idle air-fuel mixture setting procedure and value (e.g., idle CO, idle air-fuel ratio, idle speed drop), high idle speed, initial injection timing and valve lash (as applicable), as well as other parameters deemed necessary by the manufacturer. These specifications should indicate the proper transmission position during tuneup and what accessories (e.g., air conditioner), if any, should be in operation;

(E) An unconditional statement of compliance with the appropriate model year U.S. Environmental Protection Agency regulations which apply to light-duty vehicles;

(F) For vehicles which are part of the diesel particulate averaging program, the family particulate emission limit to which the vehicle is certified;

(G) For vehicles that have been exempted from compliance with the emission standards at high altitude, as specified in § 86.090-8(h);

(1) A highlighted statement (e.g., underscored or boldface letters) that the vehicle is certified to applicable emission standards at low altitude only;

(2) A statement that the vehicle's unsatisfactory performance under high-altitude conditions makes it unsuitable for principal use at high altitude, and

(3) A statement that the emission performance warranty provisions of 40 CFR part 85, subpart V do not apply when the vehicle is tested at high altitude; and

(H) For vehicles that have been exempted from compliance with the

emission standards at low altitude, as specified in § 86.090-8(i):

(1) A highlighted statement (e.g., underscore or boldface letters) that the vehicle is certified to applicable emission standards at high altitude only; and

(2) A statement that the emission performance warranty provisions of 40 CFR part 85, subpart V do not apply when the vehicle is tested at low altitude.

(I) The vacuum hose routing diagram applicable to the vehicles if the vehicles are equipped with vacuum actuated emission and emission-related components. The manufacturer may, at its option, use a separate label for the vacuum hose routing diagram provided that the vacuum hose diagram is placed in a visible and accessible position as provided in this section.

(J) Vehicles granted final admission under § 85.1505 must comply with the labeling requirements contained in § 85.1510.

(2) *Light-duty truck and heavy-duty vehicles optionally certified in accordance with the light-duty truck provisions.* (i) A legible, permanent label shall be affixed in a readily visible position in the engine compartment.

(ii) The label shall be affixed by the vehicle manufacturer who has been issued the certificate of conformity for such vehicle, in such a manner that it cannot be removed without destroying or defacing the label. The label shall not be affixed to any equipment which is easily detached from such vehicle.

(iii) The label shall contain the following information lettered in the English language in block letters and numerals, which shall be of a color that contrasts with the background of the label.

(A) The label heading: Important Vehicle Information;

(B) Full corporate name and trademark of manufacturer;

(C) Engine displacement (in cubic inches or liters) and engine family identification;

(D) Engine tune-up specifications and adjustments, as recommended by the manufacturer in accordance with the applicable emission standards (or family emission limits, as appropriate), including but not limited to idle speed(s), ignition timing, the idle air-fuel mixture setting procedure and value (e.g., idle CO, idle air-fuel ratio, idle speed drop), high idle speed, initial injection timing, and valve lash (as applicable), as well as other parameters deemed necessary by the manufacturer. These specifications should indicate the proper transmission position during tune-up and what accessories (e.g., air

conditioner), if any, should be in operation. If adjustments or modifications to the vehicle are necessary to insure compliance with emission standards (or family emission limits, as appropriate) at either high or low altitude, the manufacturer shall either include the instructions for such adjustments on the label, or indicate on the label where instructions for such adjustments may be found. The label shall indicate whether the engine tune-up or adjustment specifications are applicable to high altitude, low altitude, or both;

(E) (1) *Light-duty trucks.* One of the prominent statements, as applicable:

(i) Labels for light-duty trucks certified to the oxides of nitrogen standard of 1.12 grams per vehicle mile shall include the following statement: "This vehicle conforms to U.S. EPA regulations applicable to 19___ Model Year New Light-Duty Trucks."

(ii) Labels for light-duty trucks certified to the oxides of nitrogen standard of 1.7 grams per vehicle mile shall include the following statement: "This vehicle conforms to U.S. EPA regulations applicable to 19___ Model Year New Light-Duty Trucks with a curb weight greater than 3,450 pounds."

(2) *Heavy-duty vehicles optionally certified in accordance with the light-duty truck provisions.* "This heavy-duty vehicle conforms to the U.S. EPA regulations applicable to 19___ Model Year Light-Duty Trucks under the special provision of 40 CFR 86.092-1(b)."

(F) If the manufacturer is provided an alternate useful life period under the provisions of § 86.091-21(f), the prominent statement: "This vehicle has been certified to meet U.S. EPA standards for a useful-life period of ___ years or ___ miles of operation, whichever occurs first. This vehicle's actual life may vary depending on its service application." The manufacturer may alter this statement only to express the assigned alternate useful life in terms other than years or miles (e.g., hours, or miles only).

(G) A statement, if applicable, that the adjustments or modifications indicated on the label are necessary to ensure emission control compliance at the altitude specified.

(H) A statement, if applicable, that the high-altitude vehicle was designated or modified for principal use at high altitude. This statement must be affixed by the manufacturer at the time of assembly or by any dealer who performs the high-altitude modification or adjustment prior to sale to an ultimate purchaser.

(I) For vehicles that have been exempted from compliance with the

high-altitude emission standards, as specified in § 86.091-9(g)(2).

(1) A highlighted statement (e.g., underscored or boldface letters) that the vehicle is certified to applicable emission standards at low altitude only.

(2) A statement that the vehicle's unsatisfactory performance under high-altitude conditions makes it unsuitable for principal use at high altitude, and

(3) A statement that the emission performance warranty provisions of 40 CFR Part 85, Subpart V do not apply when the vehicle is tested at high altitude;

(J) For vehicles which are included in the diesel particulate averaging program, the family particulate emission limit to which the vehicle is certified.

(K) For vehicles which are included in the light-duty truck NO_x averaging program, the family NO_x emissions limit to which the vehicle is certified.

(L) The vacuum hose routing diagram applicable to the vehicles if the vehicles are equipped with vacuum actuated emission and emission-related components. The manufacturer may, at its option, use a separate label for the vacuum hose routing diagram provided that the vacuum hose diagram is placed in a visible and accessible position as provided by this section.

(M) Vehicles granted final admission under § 85.1505 must comply with the labeling requirements contained in § 85.1510.

(3) *Heavy-duty engines.* (i) A permanent legible label shall be affixed to the engine in a position in which it will be readily visible after installation in the vehicle.

(ii) The label shall be attached to an engine part necessary for normal engine operation and not normally requiring replacement during engine life.

(iii) The label shall contain the following information lettered in the English language in block letters and numerals which shall be of a color that contrasts with the background of the label:

(A) The label heading: Important Engine Information.

(B) Full corporate name and trademark of manufacturer;

(C) Engine displacement (in cubic inches or liters) and engine family and model designations;

(D) Date of engine manufacture (month and year). The manufacturer may, in lieu of including the date of manufacture on the engine label, maintain a record of the engine manufacture dates. The manufacturer shall provide the date of manufacture records to the Administrator upon request.

(E) Engine specifications and adjustments as recommended by the manufacturer. These specifications should indicate the proper transmission position during tune-up and what accessories (e.g., air conditioner), if any, should be in operation;

(F) For Otto-cycle engines the label should include the idle speed, ignition timing, and the idle air-fuel mixture setting procedure and value (e.g., idle CO, idle air-fuel ratio, idle speed drop), and valve lash;

(G) For diesel engines the label should include the advertised hp at rpm, fuel rate at advertised hp in mm³/stroke, valve lash, initial injection timing, and idle speed;

(H) The prominent statement: "This engine conforms to U.S. EPA regulations applicable to 19___ Model Year New Heavy-Duty Engines."

(I) If the manufacturer is provided with an alternate useful life period under the provisions of § 86.901-21(f), the prominent statement: "This engine has been certified to meet U.S. EPA standards for a useful-life period of ___ miles or ___ hours of operation, whichever occurs first. This engine's actual life may vary depending on its service application." The manufacturer may alter this statement only to express the assigned alternate useful life in terms other than miles or hours (e.g., years, or hours only).

(J) For diesel engines. The prominent statement: "This engine has a primary intended service application as a ___ heavy-duty engine." (The primary intended service applications are light, medium, and heavy, as defined in § 86.902-2.)

(K) For Otto-cycle engines. One of the following statements, as applicable:

(1) For engines certified to the emission standards under § 86.091-10 (a)(1) (i) or (iii), the statement: "This engine is certified for use in all heavy-duty vehicles."

(2) for gasoline-fueled engines certified under the provisions of § 86.091-10(a)(3)(i), the statement: "This engine is certified for use in all heavy-duty vehicles under the special provision of 40 CFR § 86.091-10(a)(3)(i)."

(3) For engines certified to the emission standards under § 86.091-10 (a)(1) (ii) or (iv), the statement: "This engine is certified for use only in heavy-duty vehicles with a gross vehicle weight rating above 14,000 lbs."

(L) For diesel engines which are included in the diesel heavy-duty particulate averaging program, the family particulate emission limit to which the engine is certified.

(M) For any heavy-duty engines which are included in the heavy-duty NO_x

averaging program, the family NO_x emission limit to which the engine is certified.

(N) Engines granted final admission under § 85.1505 must comply with the labeling requirements contained in § 85.1510.

(iv) The label may be made up of one or more pieces: *Provided*, That all pieces are permanently attached to the same engine or vehicle part as applicable.

(4)(i) *Gasoline-fueled and methanol-fueled heavy-duty vehicles.* A permanent, legible label shall be affixed in a readily visible position in the engine compartment. If such vehicles do not have an engine compartment, the label required in paragraphs (a)(4) and (g)(1) of this section shall be affixed in a readily visible position on the operator's enclosure or on the engine.

(ii) The label shall be affixed by the vehicle manufacturer who has been issued the certificate of conformity for such vehicle, in such a manner that it cannot be removed without destroying or defacing the label. The label shall not be affixed to any equipment which is easily detached from such vehicle.

(iii) The label shall contain the following information lettered in the English language in block letters and numerals, which shall be of a color that contrasts with the background of the label:

(A) The label heading: Vehicle Emission Control Information;

(B) Full corporate name and trademark of manufacturer;

(C) Evaporative family identification;

(D) The maximum nominal fuel tank capacity (in gallons) for which the evaporative control system is certified; and,

(E) One of the following, as appropriate:

(1) An unconditional statement of compliance with the appropriate model year U.S. Environmental Protection Agency regulations which apply to gasoline-fueled heavy-duty vehicles.

(2) An unconditional statement of compliance with the appropriate model year U.S. Environmental Protection Agency regulations which apply to methanol-fueled heavy-duty vehicles.

(F) Vehicles granted final admission under § 85.1505 must comply with the labeling requirements contained in § 85.1510.

(b) The provisions of this section shall not prevent a manufacturer from also reciting on the label that such vehicle (or engine) conforms to any applicable state emission standards for new motor vehicles (or new motor vehicle engines) or any other information that such manufacturer deems necessary for, or useful to, the proper operation and

satisfactory maintenance of the vehicle (or engine).

(c)(1) The manufacturer of any light-duty vehicle or light-duty truck subject to the emission standards (or family emission limits, as appropriate) of this subpart shall, in addition and subsequent to setting forth those statements on the label required by the Department of Transportation (DOT) pursuant to 49 CFR 567.4, set forth on the DOT label or an additional label located in proximity to the DOT label and affixed as described in 40 CFR 567.4(b), the following information in the English language, lettered in block letters and numerals not less than three thirty-seconds of an inch high, of a color that contrasts with the background of the label:

(i) The heading: "Vehicle Emission Control Information."

(ii)(A) *For light-duty vehicles.* The statement: "This Vehicle Conforms to U.S. EPA Regulations Applicable to 19___ Model Year New Motor Vehicles."

(B) *For light-duty trucks.* (1) The statement: "This vehicle conforms to U.S. EPA regulations applicable to 19___ Model Year New Light-Duty Trucks."

(2) If the manufacturer is provided an alternate useful life period under the provisions of § 86.091-21(f), the prominent statement: "This vehicle has been certified to meet U.S. EPA standards for a useful-life period of ___ years or ___ miles of operation, whichever occurs first. This vehicle's actual life may vary depending on its service application." The manufacturer may alter this statement only to express the assigned alternate useful life in terms other than years or miles (e.g., hours, or miles only)

(iii) One of the following statements, as applicable, in letters and numerals not less than six thirty-seconds of an inch high and of a color that contrasts with the background of the label:

(A) For all vehicles certified as noncatalyst-equipped: "NON-CATALYST"

(B) For all vehicles certified as catalyst-equipped which are included in a manufacturer's catalyst control program for which approval has been given by the Administrator: "CATALYST—APPROVED FOR IMPORT"

(C) For all vehicles certified as catalyst-equipped which are not included in a manufacturer's catalyst control program for which prior approval has been given by the Administrator: "CATALYST"

(2) In lieu of selecting either of the labeling options of paragraph (c)(1) of this section, the manufacturer may add the information required by paragraph (c)(1)(iii) of this section to the label required by paragraph (a) of this section. The required information will be set forth in the manner prescribed by paragraph (c)(1)(iii) of this section.

(d) Incomplete light-duty trucks or incomplete heavy-duty vehicles optionally certified in accordance with the light-duty truck provisions shall have one of the following prominent statements, as applicable, printed on the label required by paragraph (a)(2) of this section in lieu of the statement required by paragraph (a)(2)(iii)(E) of this section.

(1) *Light-duty trucks.* (i) Labels for light-duty trucks certified to the oxides of nitrogen standard of 1.2 grams per vehicle mile shall include the following statement: "This vehicle conforms to U.S. EPA regulations applicable to 19___ Model Year New Light-Duty Trucks when it does not exceed ___ pounds in curb weight, ___ pounds in gross vehicle weight rating, and ___ square feet in frontal area."

(ii) Labels for light-duty trucks certified to the oxides of nitrogen standards of 1.7 grams per vehicle mile shall include the following statement: "This vehicle conforms to U.S. EPA regulations applicable to 19___ Model Year New Light-Duty Trucks when it is between 3,450 pounds and ___ pounds in curb weight and it does not exceed ___ pounds in gross vehicle weight rating nor ___ square feet in frontal area."

(2) *Heavy-duty vehicles optionally certified in accordance with the light-duty truck provisions.* "This heavy-duty vehicle conforms to the U.S. EPA regulations applicable to 19___ Model Year Light-Duty Trucks under the special provision of 40 CFR 86.085-1(b) when it does not exceed ___ pounds in curb weight, ___ pounds in gross vehicle weight rating, and ___ square feet in frontal area."

(e) Incomplete heavy-duty vehicles having a gross vehicle weight rating of 8,500 pounds or less shall have one of the following statements printed on the label required by paragraph (a)(3) of this section in lieu of the statement required by paragraph (a)(3)(iii)(H) of this section: "This engine conforms to U.S. EPA regulations applicable to 19___ Model Year Heavy-Duty Engines when installed in a vehicle completed at a curb weight of more than 6,000 pounds or with a frontal area of greater than 45 square feet."

(f) The manufacturer of any incomplete light-duty vehicle or light-duty truck shall notify the purchaser of

such vehicle of any curb weight, frontal area, or gross vehicle weight rating limitations affecting the emission certificate applicable to that vehicle. This notification shall be transmitted in a manner consistent with National Highway Traffic Safety Administration safety notification requirements published in 49 CFR part 568.

(g)(1)(i) Incomplete gasoline-fueled heavy-duty vehicles shall have the following prominent statement printed on the label required in paragraph (a)(4) of this section: "(Manufacturer's corporate name) has determined that this vehicle conforms to U.S. EPA regulations applicable to 19___ Model Year New Gasoline-Fueled Heavy-Duty Vehicles when completed with a nominal fuel tank capacity not to exceed ___ gallons. Persons wishing to add fuel tank capacity beyond the above maximum must submit a written statement to the Administrator that the hydrocarbon storage system has been upgraded according to the requirements of 40 CFR 86.092-35(g)(2)."

(ii) Incomplete methanol-fueled heavy-duty vehicles shall have the following prominent statement printed on the label required in paragraph (a)(4) of this section: "(Manufacturer's corporate name) has determined that this vehicle conforms to U.S. EPA regulations applicable to 19___ Model Year New Methanol-Fueled Heavy-Duty Vehicles when completed with a nominal fuel tank capacity not to exceed ___ gallons. Persons wishing to add fuel tank capacity beyond the above maximum must submit a written statement to the Administrator that the hydrocarbon storage system has been upgraded according to the requirements of 40 CFR 86.091-35(g)(2)."

(2) Persons wishing to add fuel tank capacity beyond the maximum specified on the label required in paragraph (g)(1) of this section shall:

(i) Increase the amount of fuel tank vapor storage material according to the following function:

$$\text{Cap}_r = \text{Cap}_i \left(\frac{\text{T. Vol.}}{\text{Max. Vol.}} \right)$$

Where:

Cap_r = final amount of fuel tank vapor storage material, grams.

Cap_i = initial amount of fuel tank vapor storage material, grams.

T. Vol. = total fuel tank volume of completed vehicle, gallons.

Max. Vol. = maximum fuel tank volume as specified on the label required in paragraph (g)(1) of this section, gallons.

(ii) Use, if applicable, hosing for fuel vapor routing which is at least as impermeable to hydrocarbon vapors as that used by the primary manufacturer.

(iii) Use vapor storage material with the same absorptive characteristics as that used by the primary manufacturer.

(iv) Connect, if applicable, any new hydrocarbon storage device to the existing hydrocarbon storage device in series such that the original hydrocarbon storage device is situated between the fuel tank and the new hydrocarbon storage device. The original hydrocarbon storage device shall be sealed such that vapors cannot reach the atmosphere. The elevation of the original hydrocarbon storage device shall be equal to or lower than the new hydrocarbon storage device.

(v) Submit a written statement to the Administrator that paragraphs (g)(2)(i) through (g)(2)(iv) of this section have been complied with.

(3) If applicable, the Administrator will send a return letter verifying the receipt of the written statement required in paragraph (g)(2)(v) of this section.

(h)(1) Light-duty trucks and heavy-duty vehicles and engines for which nonconformance penalties are to be paid in accordance with § 86.1113-87(b) shall have the following information printed on the label required in paragraph (a) of this section. The manufacturer shall begin labeling production engines or vehicles within 10 days after the completion of the PCA.

(i) The statement: "The manufacturer of this engine/vehicle will pay a nonconformance penalty to be allowed to introduce it into commerce at an emission level higher than the applicable emission standard. The compliance level (or new emission standard) for this engine/vehicle is ___." (The manufacturer shall insert the applicable pollutant and compliance level calculated in accordance with § 86.1112-87(a).)

(2) If a manufacturer introduces an engine or vehicle into commerce prior to the compliance level determination of § 86.1112-87(a), it shall provide the engine or vehicle owner with a label as described above to be affixed in a location in proximity to the label required in paragraph (a) of this section within 30 days of the completion of the PCA.

(Approved by the Office of Management and Budget under the control number 2000-0104)

[FR Doc. 90-4286 Filed 2-27-90; 8:45 am]

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Asbestos Federal Register

Wednesday
February 28, 1990

Part IV

Environmental Protection Agency

Asbestos-Containing Materials in Schools;
EPA Approved Courses and Accredited
Laboratories Under the Asbestos Hazard
Emergency Response Act (AHERA)

ENVIRONMENTAL PROTECTION AGENCY

[OPTS-62086; FRL-3710-3]

Asbestos-Containing Materials in Schools; EPA Approved Courses and Accredited Laboratories Under the Asbestos Hazard Emergency Response Act (AHERA)

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: Section 206(c)(3) of the Toxic Substances Control Act (TSCA) directs the EPA Administrator to publish (and revise as necessary) a list of EPA-approved asbestos courses and tests which are consistent with the Agency's Model Accreditation Plan required under section 206(b) of TSCA. Also required is a list of courses and tests which qualify or had qualified for equivalency treatment for interim accreditation during the time period established by Congress in AHERA; that time period has ended in all States. The grace period for persons with interim accreditation expired in July 1989, in all except seven States. All courses approved for interim accreditation are included in the list for information purposes only.

Section 206(f) of TSCA Title II requires the Administrator to publish quarterly in the *Federal Register*, beginning August 31, 1988, a list of EPA-approved asbestos training courses. This *Federal Register* notice includes the tenth cumulative list of course approvals and a list that includes State accreditation programs that EPA has approved as meeting the requirements of the Model Plan. Additionally, this notice includes the most current list as of January 22, 1990, of laboratories accredited under section 206(d) of TSCA to conduct bulk analysis of asbestos-containing materials. Those laboratories which had previously received interim accreditation from EPA are no longer listed in this *Federal Register* because EPA interim approval for laboratories ended October 30, 1989.

FOR FURTHER INFORMATION CONTACT: Michael M. Stahl, Director, Environmental Assistance Division (TS-799), Office of Toxic Substances, Environmental Protection Agency, Rm. E-545, 401 M St., SW., Washington, DC 20460, Telephone: (202) 382-3790, TDD: (204) 554-0551.

SUPPLEMENTARY INFORMATION: Section 206 of Title II of the Toxic Substances Control Act (TSCA), 15 U.S.C. 2646, required EPA to develop a Model Accreditation Plan by April 20, 1987.

The Plan was issued on April 20, 1987, and was published in the *Federal Register* of April 30, 1987 (52 FR 15875), as Appendix C to Subpart E, 40 CFR part 763. To conduct asbestos-related work in schools, persons must receive accreditation in order to inspect school buildings for asbestos, develop management plans, and design or conduct response actions. Such persons can be accredited by States, which are required under Title II to adopt contractor accreditation plans at least as stringent as the EPA Model Plan, or by completing an EPA-approved training course and passing an examination for such course. The EPA Model Accreditation Plan establishes those areas of knowledge of asbestos inspection, management plan development, and response action technology that persons seeking accreditation must demonstrate and States must include in their accreditation programs.

In the *Federal Register* of October 31, 1989 (52 FR 41826), EPA promulgated a final "Asbestos-Containing Materials in Schools" rule (40 CFR part 763, subpart E) which required all local education agencies (LEAs) to identify asbestos-containing materials (ACM) in their school buildings and take appropriate actions to control the release of asbestos fibers. The LEAs are also required to describe their activities in management plans, which must be made available to the public and submitted to State governors. Under Title II, LEAs are required to use specially trained persons to conduct inspections for asbestos, develop the management plans, and design or conduct major actions to control asbestos. The rule took effect on December 14, 1987.

The length of initial training courses for accreditation under the Model Plan varies by discipline. Briefly, inspectors must take a 3-day training course; management planners must take the inspection course plus an additional 2 days devoted to management planning; and abatement project designers are required to have at least 3 days of training. In addition, asbestos abatement contractors and supervisors must take a 4-day training course and asbestos abatement workers are required to take a 3-day training course. For all disciplines, persons seeking accreditation must also pass an examination and participate in annual re-training courses. A complete description of accreditation requirements can be found in the Model Accreditation Plan at 40 CFR part 763, subpart E, Appendix C.I.1.A through E.

In Section 206(c)(3) of Title II, and as amended by section 206(f), the

Administrator, in consultation with affected organizations, is directed to publish quarterly a list of asbestos courses and tests in effect before the date of enactment of this title which qualified for equivalency treatment for interim accreditation purposes, and a list of EPA-approved asbestos courses and tests which the Administrator has determined are consistent with the Model Plan and which qualify a contractor for accreditation. In addition, the Agency has included in this notice the most current list of laboratories which have received accreditation from the National Institute of Standards and Technology (NIST), formerly the National Bureau of Standards (NBS), for the analysis of bulk materials for asbestos by polarized light microscopy (PLM). Those laboratories which had previously received interim accreditation from EPA are no longer listed in this *Federal Register* because EPA interim approval for laboratories ended October 30, 1989.

The *Federal Register* notice of October 30, 1987, included the initial list of course approvals. In addition, the list included State accreditation programs that EPA has approved as meeting the requirements of the Model Plan. The second *Federal Register* notice of February 10, 1988 (53 FR 3982), the third *Federal Register* notice of June 1, 1988 (53 FR 20066), the fourth *Federal Register* notice of August 31, 1988 (53 FR 33574), the fifth *Federal Register* notice of November 30, 1988 (53 FR 48424), the sixth *Federal Register* notice of February 28, 1989 (54 FR 8438), the seventh *Federal Register* notice of May 31, 1989 (54 FR 23392), the eighth *Federal Register* notice of August 31, 1989 (54 FR 36166), and the ninth *Federal Register* notice of November 29, 1989 (54 FR 49190) were cumulative listings of EPA course approvals and EPA-approved State accreditation programs.

This *Federal Register* notice is divided into five units. Unit I discusses EPA approval of State accreditation programs. Unit II covers EPA approval of training courses. Unit III discusses the AHERA-imposed deadline for persons with interim accreditation. Unit IV provides the list of State accreditation programs and training courses approved by EPA as of January 22, 1990. Subsequent *Federal Register* notices will add other State programs as they are approved. Training courses received by EPA prior to October 15, 1989, and subsequently approved will also be listed. Unit V contains a listing of all laboratories under the NIST accreditation program for laboratories

that are conducting analyses of bulk samples of ACM.

As announced in the *Federal Register* of September 20, 1989, EPA is no longer accepting for review and contingent approval training courses for AHERA accreditation after October 15, 1989. However, a course's status may change after October 15. For example, a contingently approved course may become fully approved and a course with full approval may become disapproved. As mentioned in the September 1989 *Federal Register* notice, EPA has said it would continue to conduct full approval audits of courses that already have received contingent approval and review for contingent approval and subsequent full approval, courses received by EPA which had been postmarked on or before October 15, 1989. In the future, EPA may reach agreements with States that do not currently have an accreditation program, to turn over responsibility for auditing courses with contingent and full approval, as these States develop accreditation programs.

I. EPA Approval of State Accreditation Programs

As discussed in the Model Plan, EPA may approve State accreditation programs that the Agency determines are at least as stringent as the Model Plan. In addition, the Agency is able to approve individual disciplines within a State's accreditation program. For example, a State that currently only has an accreditation requirement for inspectors can receive EPA approval for that discipline immediately, rather than waiting to develop accreditation requirements for all disciplines in the Model Plan before seeking EPA approval.

As listed in Unit IV, Alaska, Arkansas, Colorado, Delaware, Indiana, Iowa, Kansas, Massachusetts, Michigan, Minnesota, New Jersey, North Dakota, Oregon, Rhode Island, South Dakota, Utah, Virginia, Washington, and Wisconsin have received EPA full approval for two accreditation disciplines, abatement workers as well as contractors and supervisors, that are at least as stringent as the Model Plan. In addition, the States of Colorado, Indiana, Iowa, Massachusetts, Michigan, North Dakota, Rhode Island, South Dakota, Utah, Virginia, and Wisconsin have received full approval for their inspector/management planner and project designer disciplines. Any training courses in those disciplines approved by the aforementioned States are EPA-approved courses for purposes of accreditation. These training courses are EPA-approved courses for purposes

of TSCA Title II in these States and in all States without an EPA-approved accreditation program for the discipline. Current lists of training courses approved by Arkansas, Delaware, Iowa, Massachusetts, Michigan, New Jersey, North Dakota, Oregon, Rhode Island, South Dakota, Utah, Virginia, and Washington are listed under Unit IV. Alaska, Colorado, Indiana, Kansas, and Wisconsin do not have separate provider listings since the States have not independently approved any additional courses.

Each State accreditation program may have different requirements for State accreditation. For example, New Jersey requires participants of its courses to take the State exam. Therefore, those New Jersey-approved course sponsors who want to provide training in another State must develop their own examination. They must also submit a detailed statement about the development of the course examination as required by the Model Plan to the Regional Asbestos Coordinator in their region for EPA approval.

II. EPA Approval of Training Courses

A cumulative list of training courses approved by EPA is included under Unit IV. The examinations for these approved courses under Unit IV have also been approved by EPA. EPA has three categories of course approval: full, contingent, and approved for interim accreditation. As noted in Unit III, interim accreditation is no longer in effect in all except seven States and will expire in all States as of July 1990. Each course that had been approved for interim accreditation will show inclusive dates of this approval. EPA's deadline for interim accreditation is discussed in Unit III.

Full approval means EPA has reviewed and found acceptable the course's written submission seeking EPA approval and has conducted an on-site audit and determined that the training course meets or exceeds the Model Plan's training requirements for the relevant discipline.

Contingent approval means the Agency has reviewed the course's written submission seeking EPA approval and found the material to be acceptable (i.e., the written course materials meet the Model Plan's training course requirements). However, EPA has not yet conducted an on-site audit.

Successful completion of either a fully approved course or a contingently approved course provides full accreditation for course attendees. If EPA subsequently audits a contingently approved course and withdraws approval due to deficiencies discovered

during the audit, future course offerings would no longer have EPA approval. However, withdrawal of EPA approval would not effect the accreditation of persons who took previously offered training courses, including the course audited by EPA.

Thus far, EPA has taken formal action to revoke or suspend course approvals in two instances. EPA revoked approval from Living Word College's inspector and management planner training courses offered after May 6, 1988. Living Word College is located in EPA Region VII. In addition, EPA has suspended approval from the Safety Management Institute's training courses and refresher courses for workers, inspectors/management planners, and contractors/supervisors. The effective date for the course suspensions is the first week of October 1989. Safety Management Institute is located in EPA Region III.

EPA-approved training courses listed under Unit IV are approved on a national basis. EPA has organized Unit IV by EPA Region to assist the public in locating those training courses that are offered nearby. Training courses are listed in the Region where the training course is headquartered. Although several sponsors offer their courses in various locations throughout the United States, a large number of course sponsors provide most of their training within their own Region.

State accreditation programs may have more stringent accreditation requirements than the Model Plan. As a result, some EPA-approved training courses listed under Unit IV may not meet the requirements of a particular State's accreditation program. Sponsors of training courses and persons who have received accreditation should contact individual States to check on accreditation requirements.

A number of training courses offered before EPA issued the Model Plan equaled or exceeded the subsequently issued Model Plan's training course requirements. These courses are listed under Unit IV as being approved. It should be noted that the persons who have successfully completed these are fully accredited; they are not only accredited on an interim basis.

III. Phase out of Interim Accreditation.

TSCA Title II enabled EPA to permit persons to be accredited on an interim basis if they had attended EPA-approved asbestos training before the effective date of the AHERA regulation and passed an asbestos exam. As a result, the Agency approved, on an interim basis, a number of training courses which had been offered prior to

the effective date of the AHERA regulation. Only those persons who had taken training courses equivalent to the Model Plan's requirements between January 1, 1985 and December 14, 1987, were considered accredited under these interim provisions. Equivalent means that the courses had to be essentially similar in length and content to the curriculum found in the Model Plan. In addition, an examination had to be essentially equivalent to the examination requirements found in the Model Plan. If no examination was offered at the time, course providers seeking interim approval needed to provide an examination.

Persons who took one of the EPA-approved courses for interim accreditation, and could produce evidence that they had successfully completed the course by passing an examination, were accredited on an interim basis. This accreditation was interim since the person was considered accredited for only 1 year after the date on which the State where the person was employed was required to have established an accreditation program at least as stringent as the EPA Model Plan. TSCA Title II requires States to adopt a contractor accreditation program at least as stringent as the Model Plan within 180 days after the first regular session of the State's legislature convened following the date EPA issued the Model Plan.

The deadline for all States to establish a complete accreditation program was July 1989. In fact, most States were required to have developed a program by July 1988. As a result, after July 1988, the period of interim accreditation expired for persons in all States but Arkansas, Montana, Nevada, North Carolina, Oregon, Pennsylvania, and Texas. In these seven States, the legislatures meet on a bi-annual basis and last met in January 1989; therefore, persons with interim accreditation will not lose their interim status in these States until July 1990. In any other State that has not developed accreditation programs at least as stringent as the Model Plan, persons accredited on an interim basis are no longer eligible to perform AHERA work. Such persons were required to complete an EPA-approved course or a State course under a State plan at least as stringent as the EPA Model Plan to receive full accreditation. For example, a person with interim accreditation as a supervisor would have to take a 4-day supervisor's course approved by EPA or an EPA-approved State program to become fully accredited.

IV. List of EPA-Approved State Accreditation Programs and Training Courses

The tenth cumulative listing of EPA-approved State accreditation programs and training courses is listed in Unit IV. As discussed above, quarterly notifications of EPA approval of State accreditation programs and EPA approval of training courses will be published in subsequent **Federal Register** notices. The closing date for the acceptance of submissions to EPA for inclusion in this tenth notice was January 22, 1990. Omission from this list does not imply disapproval by EPA, nor does the order of the courses reflect priority or quality. The format of the notification lists first the State accreditation programs approved by EPA, followed by EPA-approved training courses listed by Region. The name, address, phone number, and contact person is provided for each training provider followed by the courses and type of course approval (i.e., full, contingent, or for interim purposes).

As of January 22, 1990, a total of 587 training providers are offering 1113 EPA-approved training courses for accreditation under TSCA Title II. There are 487 asbestos abatement worker courses, 373 contractor/supervisor courses, 195 inspector/management planner courses, 17 inspector only courses, and 41 project designer courses. In addition, EPA has approved 685 refresher courses. Nineteen States have EPA-approved State accreditation programs in one or more disciplines.

The EPA-funded model course for inspectors and management planners is available. In addition, a previous EPA-developed course for asbestos abatement contractors and supervisors has been revised and is available in final form for interested parties who plan to offer training courses. EPA anticipates that its model worker course will be available in Spring 1990. A fee for each course will be charged to cover the reproduction and shipping costs for the written and visual aid materials. Interested parties should contact the following firm to receive copies of the training courses: ATLAS Federal Services, Inc., EPA AHERA Program, 6011 Executive Blvd., Rockville, MD 20852, Phone number: (301) 468-1916.

The following is the cumulative list of EPA-approved State accreditation programs and training courses:

Approved State Accreditation Programs

(1)(a) *State: Alaska.*

State Agency: Department of Labor,
Address: P.O. Box 1149, Juneau, AK

99802, Contact: Richard Arab, Phone: (907) 465-4856.

(b) *Approved Accreditation Program Disciplines:*

Abatement Worker (interim from 10/1/85).
Abatement Worker (full from 1/29/90).
Contractor/Supervisor (interim from 10/1/85).
Contractor/Supervisor (full from 1/29/90).

(2)(a) *State: Arkansas.*

State Agency: Arkansas Dept. of Pollution Control and Ecology,
Address: 8001 National Dr., P.O. Box 9583, Little Rock, AR 72209, Contact: Wilson Tolefree, Phone: (501) 562-7444.

(b) *Approved Accreditation Program Disciplines:*

Abatement Worker (interim from 11/22/85).
Abatement Worker (full from 1/22/88).
Contractor/Supervisor (interim from 11/22/85).
Contractor/Supervisor (full from 1/22/88).

Arkansas Department of Pollution Control and Ecology, EPA-Approved Courses for Abatement Workers and Contractors/Supervisors

(i)(a) *Training Provider: Arkansas Laborers Training Fund.*

Address: 4501 West 61st St., Little Rock, AR 72209, Contact: W. Rudy Osborne, Phone: (501) 562-5502.

(b) *Approved Course:*

Abatement Worker (Certified 5/2/88).

(ii)(a) *Training Provider: Asbestos Training & Employment, Inc.*

Address: 809 East 11th St., Michigan City, IN 46360, Contact: Bruce H. Connell, Phone: (219) 874-7348.

(b) *Approved Courses:*

Abatement Worker (Certified 5/18/88).
Contractor/Supervisor (Certified 5/18/88).

(iii)(a) *Training Provider: Critical Environmental Training, Inc.*

Address: 5815 Gulf Freeway, Houston, TX 77023, Contact: Charles M. Flanders, Phone: (713) 921-8921.

(b) *Approved Courses:*

Abatement Worker (Certified 9/12/88).
Contractor/Supervisor (Certified 9/12/88).

(iv)(a) *Training Provider: Environmental Institute.*

Address: 350 Franklin Rd., Suite 300, Marietta, GA 30067, Contact: Eva Clay, Phone: (404) 425-2000.

(b) *Approved Course:*

- Contractor/Supervisor (Certified 10/7/88).
(v)(a) *Training Provider:* Environmental Technologies.
Address: P.O. Box 21243, Little Rock, AR 72221, Contact: Phyllis Moore, Phone: (501) 569-3518.
(b) *Approved Courses:*
Abatement Worker (Certified 3/16/88).
Abatement Worker Annual Review (Certified 3/30/89).
Contractor/Supervisor (Certified 3/16/88).
Contractor/Supervisor Annual Review (Certified 3/30/89).
(vi)(a) *Training Provider:* Hall-Kimbrell Environmental Services.
Address: P.O. Box 307, Lawrence, KS 66044, Contact: Patrick Shrepf, Phone: (913) 749-2381.
(b) *Approved Courses:*
Abatement Worker (Certified 6/8/88).
Contractor/Supervisor (Certified 6/8/88).
(vii)(a) *Training Provider:* Professional Asbestos Training Service.
Address: P.O. Box 19092, Little Rock, AR 72219, Contact: Harold Lewis, Phone: (501) 562-1519.
(b) *Approved Courses:*
Abatement Worker (Certified 4/18/88).
Abatement Worker Annual Review (Certified 1/4/90).
Contractor/Supervisor (Certified 4/18/88).
Contractor/Supervisor Annual Review (Certified 1/4/90).
(viii)(a) *Training Provider:* University of Arkansas.
Address: 521 South Razorback Rd., Fayetteville, AR 72701, Contact: Greg Weeks, Phone: (501) 575-6175.
(b) *Approved Course:*
Abatement Worker (Certified 10/7/88).
(3)(a) *State:* Colorado.
State Agency: Colorado Dept. of Health, Address: 4210 East 11th Ave., Denver, CO 80220, Contact: David R. Ouimette, Phone: (303) 320-8333.
(b) *Approved Accreditation Program Disciplines:*
Abatement Worker (full from 7/8/89).
Contractor/Supervisor (full from 7/8/89).
Inspector/Management Planner (full from 7/8/89).
Project Designer (full from 7/8/89).
(4)(a) *State:* Delaware.
State Agency: Delaware Dept. of Administrative Services, Address: O'Neill Building, P.O. Box 1401, Dover, DE 19903, Contact: Robert Foster, Phone: (302) 736-5644.
(b) *Approved Accreditation Program Disciplines:*
Abatement Worker (full from 8/14/89).
Contractor/Supervisor (full from 8/14/89).
Delaware Department of Administrative Services, EPA-Approved Courses for Abatement Workers and Contractors/Supervisors
(i)(a) *Training Provider:* Delaware Technical & Community College Terry Campus.
Address: 1832 North Dupont Pkwy., Dover, DE 19901, Contact: David T. Stanley, Phone: (302) 736-5428.
(b) *Approved Courses:*
Abatement Worker (Certified 4/1/88).
Contractor/Supervisor (Certified 4/1/88).
(ii)(a) *Training Provider:* Local Union No. 42 Heat—Pipe & Frost Union.
Address: 1188 River Rd., New Castle, DE 19720, Contact: Robert Holden, Phone: (302) 328-4203.
(b) *Approved Courses:*
Abatement Worker (Certified 3/5/87).
Abatement Worker Annual Review (Certified 3/5/87).
Contractor/Supervisor (Certified 3/5/87).
Contractor/Supervisor Annual Review (Certified 3/5/87).
(5)(a) *State:* Indiana.
State Agency: Indiana Department of Environmental Management Office of Air Management, Address: 105 South Meridian St., P.O. Box 6015, Indianapolis, IN 46206-6015, Contact: Barry Titus, Phone: (317) 232-8325.
(b) *Approved Accreditation Program Disciplines:*
Abatement Worker (full from 11/10/89).
Contractor/Supervisor (full from 11/10/89).
Inspector (full from 11/10/89).
Inspector/Management Planner (full from 11/10/89).
Project Designer (full from 11/10/89).
(6)(a) *State:* Iowa.
State Agency: Iowa Dept. of Education School Facilities Administration & Accreditation, Address: Grimes State Office Bldg., Des Moines, IA 50319-0146, Contact: C. Milton Wilson, Phone: (515) 281-4743.
(b) *Approved Accreditation Program Disciplines:*
Abatement Worker (full from 11/30/87).
Contractor/Supervisor (full from 11/30/87).
Inspector (full from 11/30/87).
Inspector/Management Planner (full from 11/30/87).
Project Designer (full from 11/30/87).
Iowa Department of Education Administrative Finance School Plant Facilities, EPA-Approved Courses for Abatement Workers, Contractors/Supervisors, Inspectors/Management Planners, and Project Designers
(i)(a) *Training Provider:* Ames Environmental, Inc.
Address: 3910 Lincoln Way, Ames, IA 50010, Contact: Ann Fairchild, Phone: (515) 292-3400.
(b) *Approved Course:*
Inspector/Management Annual Review (Certified 12/8/89).
(ii)(a) *Training Provider:* Iowa Electric Light & Power.
Address: Duane Arnold Nuclear Energy Center, 3363 DEAC Rd., Palo, IA 52324, Contact: Robert Tucker, Phone: (319) 851-7574.
(b) *Approved Course:*
Contractor/Supervisor (Certified 10/1/89).
(iii)(a) *Training Provider:* Iowa Environmental Services, Inc.
Address: 820 First St., Suite 200, West Des Moines, IA 50365, Contact: Glenn Soyer, Phone: (515) 279-8045.
(b) *Approved Courses:*
Abatement Worker (Certified 3/27/89).
Contractor/Supervisor (Certified 10/1/89).
(iv)(a) *Training Provider:* M & W Environmental Consultants, Inc.
Address: RR No. 1 Wells Dr., Canton, IA 61520, Contact: Vahooman Mirkhaef, Phone: (800) 445-8745.
(b) *Approved Course:*
Inspector/Management Planner (Certified 10/1/89).
(7)(a) *State:* Kansas.
State Agency: Kansas Dept. of Health and Environment Asbestos Control Section, Address: Forbes Field Building 740, Topeka, KS 66620-7430, Contact: Howard F. Saiger, Phone: (913) 296-1544.
(b) *Approved Accreditation Program Disciplines:*
Abatement Worker (interim from 11/6/86).
Abatement Worker (full from 12/16/87).*

* Applies only to workers who have taken the Kansas Contractor/Supervisor course and passed the State's worker exam.

Contractor/Supervisor (interim from 11/6/86).

Contractor/Supervisor (full from 12/16/87).

(8)(a) *State:* Massachusetts.

State Agency: Massachusetts Dept. of Labor & Industries; Division of Occupational Hygiene, Address: 1001 Watertown St., West Newton, MA 02165, Contact: Patricia Circone, Phone: (617) 727-3983.

(b) *Approved Accreditation Program Disciplines:*

Abatement Worker (full from 10/30/87).
Contractor/Supervisor (full from 10/30/87).

Inspector (full from 10/30/87).

Inspector/Management Planner (full from 10/30/87).

Project Designer (full from 10/30/87).

Massachusetts Department of Health, EPA-Approved Courses for Abatement Workers, Contractors/Supervisors, Inspectors/Management Planners, and Project Designers

(i)(a) *Training Provider:* A & S Training School, Inc.

Address: 99 South Cameron St., Harrisburg, PA 17101, Contact: William I. Roberts, Phone: (717) 257-1360.

(b) *Approved Courses:*

Contractor/Supervisor (Certified 5/4/88).

Contractor/Supervisor Annual Review (Certified 5/4/89).

(ii)(a) *Training Provider:* Abatement Technical Corporation c/o Ecosystems, Inc.

Address: 5 North Meadow Rd., Medfield, MA 02052, Contact: Joseph C. Mohen, Phone: (609) 692-0883.

(b) *Approved Courses:*

Abatement Worker (Certified 4/28/88).
Contractor/Supervisor (Certified 4/28/88).

Inspector/Management Planner (Certified 4/28/88).

Project Designer (Certified 4/28/88).

(iii)(a) *Training Provider:* Asbestos Workers Union Local No. 6.

Address: 1725 Revere Beach Pkwy., Everett, MA 02149, Contact: James P. McCourt, Phone: (617) 387-2679.

(b) *Approved Courses:*

Abatement Worker (Certified 4/25/88).
Abatement Worker Annual Review (Certified 4/25/89).

Contractor/Supervisor (Certified 4/25/88).

Contractor/Supervisor Annual Review (Certified 4/25/89).

(iv)(a) *Training Provider:* Astoria Industries, Inc.

Address: 538 Stewart Ave., Brooklyn, NY 11222, Contact: Gary Dipaolo, Phone: (718) 387-0011.

(b) *Approved Course:*

Abatement Worker (Certified 4/8/88).

(v)(a) *Training Provider:* Astral Environmental Assoc.

Address: 3 Adams Lane, Westford, MA 01886, Contact: Dorothy Young, Phone: (508) 692-2070.

(b) *Approved Course:*

Abatement Worker (Certified 6/5/89).

(vi)(a) *Training Provider:* BCM Engineering.

Address: 12 Alfred St., Suite 300, Woburn, MA 01801, Contact: Pam Evans, Phone: (617) 935-7080.

(b) *Approved Courses:*

Abatement Worker (Certified 4/28/88).

Inspector/Management Planner (Certified 4/28/88).

Project Designer (Certified 4/28/88).

(vii)(a) *Training Provider:* Briggs Associates, Inc.

Address: 400 Hingham St., P.O. Box 369, Rockland, MA 02370, Contact: Paul Skorohod, Phone: (617) 871-6040.

(b) *Approved Course:*

Project Designer (Certified 11/10/88).

(viii)(a) *Training Provider:* Certified Engineering & Testing Co., Inc.

Address: 100 Grossman Dr., Braintree, MA 02184, Contact: Robert Thornburgh, Phone: (617) 849-0111.

(b) *Approved Courses:*

Abatement Worker (Certified 9/26/88).

Abatement Worker Annual Review (Certified 9/26/88).

Contractor/Supervisor (Certified 9/26/88).

Contractor/Supervisor Annual Review (Certified 9/26/88).

Inspector/Management Planner (Certified 9/26/88).

Inspector/Management Annual Review (Certified 9/26/88).

Project Designer (Certified 9/26/88).

(ix)(a) *Training Provider:* Con-Test, Inc.

Address: P.O. Box 591, East Longmeadow, MA 01028, Contact: Brenda Bolduc, Phone: (413) 525-1198.

(b) *Approved Courses:*

Abatement Worker (Certified 2/25/88).

Abatement Worker Annual Review (Certified 2/25/89).

Contractor/Supervisor (Certified 2/25/88).

Contractor/Supervisor Annual Review (Certified 2/25/89).

Inspector/Management Planner (Certified 2/25/88).

Inspector/Management Annual Review (Certified 2/25/89).

Project Designer (Certified 2/25/88).

(x)(a) *Training Provider:* Dennison Environmental, Inc.

Address: 35 Industrial Hwy., Woburn, MA 01880, Contact: Joan Ryan, Phone: (617) 932-9400.

(b) *Approved Courses:*

Abatement Worker (Certified 4/8/88).

Abatement Worker Annual Review (Certified 4/8/89).

Contractor/Supervisor (Certified 4/8/88).

Contractor/Supervisor Annual Review (Certified 4/8/89).

Inspector (Certified 4/8/88).

Inspector/Management Annual Review (Certified 4/8/89).

Project Designer (Certified 4/8/88).

(xi)(a) *Training Provider:* Environmental Training Corp.

Address: 100 Moody St., Suite 200, Ludlow, MA 01056, Contact: Ann Folta, Phone: (413) 589-1882.

(b) *Approved Courses:*

Abatement Worker (Certified 8/5/88).

Abatement Worker Annual Review (Certified 8/5/89).

Contractor/Supervisor (Certified 8/5/88).

Contractor/Supervisor Annual Review (Certified 8/5/89).

Project Designer (Certified 8/5/88).

(xii)(a) *Training Provider:*

Environmental Training Services.

Address: 62—H Montvale Pl., Stoneham, MA 02180, Contact: Maryann Martin, Phone: (617) 279-0855.

(b) *Approved Courses:*

Abatement Worker (Certified 4/8/88).

Abatement Worker Annual Review (Certified 4/8/89).

Contractor/Supervisor (Certified 4/8/88).

Contractor/Supervisor Annual Review (Certified 4/8/89).

Project Designer (Certified 4/8/88).

Project Designer Annual Review (Certified 4/8/89).

(xiii)(a) *Training Provider:* General Physics Corp.

Address: 6700 Alexander Bell Dr., Columbia, MD 21046, Contact: Andy Marsh, Phone: (301) 290-2300.

(b) *Approved Courses:*

Abatement Worker Annual Review (Certified 9/6/88).

Contractor/Supervisor (Certified 9/6/88).

Contractor/Supervisor Annual Review (Certified 9/6/88).

Project Designer (Certified 9/6/88).

(xiv)(a) *Training Provider:* Hall-Kimbrell Environmental Services.

Address: P.O. Box 307, Lawrence, KS 66046, Contact: Alice Hart, Phone: (800) 346-2860.

(b) *Approved Courses:*

Abatement Worker (Certified 4/25/88).
Abatement Worker Annual Review (Certified 4/25/88).

Contractor/Supervisor (Certified 4/25/88).

Contractor/Supervisor Annual Review (Certified 4/25/88).

Inspector/Management Planner (Certified 4/25/88).

Inspector/Management Annual Review (Certified 4/25/88).

Project Designer (Certified 4/25/88).

Project Designer Annual Review (Certified 4/25/88).

(xv)(a) *Training Provider:* Harvard School of Public Health.

Address: 677 Huntington Ave., Boston, MA 02115, Contact: William A. Burgass, Phone: (617) 732-1171.

(b) *Approved Courses:*

Contractor/Supervisor (Certified 2/25/88).

Inspector/Management Planner (Certified 2/25/88).

Inspector/Management Annual Review (Certified 5/25/89).

Project Designer (Certified 2/25/88).

Project Designer Annual Review (Certified 5/25/89).

(xvi)(a) *Training Provider:* Hygeia, Inc.

Address: 303 Bear Hill Rd., Waltham, MA 02154, Contact: Cynthia Whalen, Phone: (617) 890-4999.

(b) *Approved Courses:*

Abatement Worker (Certified 8/5/88).

Contractor/Supervisor (Certified 8/5/88).

Project Designer (Certified 8/5/88).

(xvii)(a) *Training Provider:* Hygienetics, Inc.

Address: 150 Causeway St., Boston, MA 02114, Contact: Marybeth Carver, Phone: (617) 723-4664.

(b) *Approved Courses:*

Abatement Worker Annual Review (Certified 2/25/89).

Contractor/Supervisor (Certified 2/25/89).

Contractor/Supervisor Annual Review (Certified 2/25/89).

Inspector/Management Planner (Certified 2/25/89).

Inspector/Management Annual Review (Certified 2/25/89).

Project Designer (Certified 2/25/89).

(xviii)(a) *Training Provider:* Institute for Environmental Education.

Address: 208 West Cummings Pk., Woburn, MA 01801, Contact: Lisa Stammer, Phone: (617) 935-0664.

(b) *Approved Courses:*

Abatement Worker (Certified 4/28/88).

Abatement Worker Annual Review (Certified 5/26/89).

Contractor/Supervisor (Certified 4/28/88).

Contractor/Supervisor Annual Review (Certified 5/26/89).

Inspector/Management Planner (Certified 4/28/88).

Inspector/Management Annual Review (Certified 5/26/89).

Project Designer (Certified 4/28/88).

(xix)(a) *Training Provider:* JF Walton & Co.

Address: 201 Marginal St., P.O. Box 6120, Chelsea, MA 02150, Contact: Richard King, Phone: (617) 884-0350.

(b) *Approved Courses:*

Abatement Worker (Certified 3/28/88).

Abatement Worker Annual Review (Certified 3/28/89).

(xx)(a) *Training Provider:* Kaselaan & D'Angelo Associates.

Address: 500 Victory Rd., Suite 270, North Quincy, MA 02171, Contact: David Kaplan, Phone: (617) 472-1330.

(b) *Approved Courses:*

Abatement Worker (Certified 2/25/88).

Abatement Worker Annual Review (Certified 2/25/89).

Contractor/Supervisor (Certified 2/25/88).

Contractor/Supervisor Annual Review (Certified 2/25/89).

Inspector/Management Planner (Certified 2/25/88).

Inspector/Management Annual Review (Certified 2/25/89).

Project Designer (Certified 2/25/88).

(xxi)(a) *Training Provider:* Mystic Air Quality Consultants.

Address: 1085 Buddington Rd., Groton, CT 06340, Contact: Christopher Eident, Phone: (203) 449-8903.

(b) *Approved Courses:*

Abatement Worker (Certified 1/11/89).

Contractor/Supervisor (Certified 1/11/89).

Contractor/Supervisor Annual Review (Certified 1/11/89).

Project Designer (Certified 1/11/89).

(xxii)(a) *Training Provider:* National Asbestos Training Center of Kansas.

Address: 6600 College Blvd., Overland Park, KS 66211, Contact: Lani Himegarner, Phone: (913) 491-0181.

(b) *Approved Courses:*

Abatement Worker (Certified 5/20/88).

Abatement Worker Annual Review (Certified 5/20/89).

Contractor/Supervisor (Certified 5/20/88).

Contractor/Supervisor Annual Review (Certified 5/20/89).

(xxiii)(a) *Training Provider:* National Training Fund/Workers Institute for Safety & Health (WISH).

Address: 1126 16th St., NW, Washington, DC 20036, Contact: Scott Schneider, Phone: (202) 887-1980.

(b) *Approved Courses:*

Abatement Worker (Certified 5/10/88).

Contractor/Supervisor (Certified 5/10/88).

Contractor/Supervisor Annual Review (Certified 5/10/89).

(xxiv)(a) *Training Provider:* New England Laborers Training Trust Fund.

Address: 37 East St., Hopkinton, MA 01748-2699, Contact: James Merloni, Jr., Phone: (617) 435-6316.

(b) *Approved Courses:*

Abatement Worker (Certified 2/25/88).

Abatement Worker Annual Review (Certified 2/25/89).

Contractor/Supervisor (Certified 2/25/89).

Contractor/Supervisor Annual Review (Certified 8/8/89).

(xxv)(a) *Training Provider:* Northern Asbestos Abatement Co.

Address: 757 A Turnpike St., North Andover, MA 01845, Contact: J. William Vitta, Phone: (508) 681-8711.

(b) *Approved Courses:*

Abatement Worker (Certified 3/18/89).

Abatement Worker Annual Review (Certified 3/18/89).

Contractor/Supervisor (Certified 3/18/89).

Contractor/Supervisor Annual Review (Certified 3/18/89).

Project Designer (Certified 3/18/89).

Project Designer Annual Review (Certified 3/18/89).

(xxvi)(a) *Training Provider:* O'Brien & Gere Engineers, Inc.

Address: 1304 Buckley Rd., Syracuse, NY 13221, Contact: Edwin Tiff, Phone: (315) 451-4700.

(b) *Approved Courses:*

Inspector/Management Planner (Certified 11/7/88).

Project Designer (Certified 11/7/88).

(xxvii)(a) *Training Provider:* Quality Control Services, Inc.

Address: 10 Lowell Junction Rd., Andover, MA 01810, Contact: Ajay Pathak, Phone: (508) 475-0623.

(b) *Approved Courses:*

Abatement Worker (Certified 5/6/88).

Abatement Worker Annual Review (Certified 5/16/89).

Contractor/Supervisor (Certified 5/6/88).

Contractor/Supervisor Annual Review (Certified 5/16/89).

(xxviii)(a) *Training Provider*: Safety Council of Western Massachusetts.
Address: 90 Berkshire Ave., Springfield, MA 01109, Contact: Tate Berkan, Phone: (413) 737-7908.

(b) *Approved Courses*:

Abatement Worker (Certified 6/21/88).
Abatement Worker Annual Review (Certified 6/21/89).
Project Designer (Certified 6/21/88).
Project Designer Annual Review (Certified 6/21/89).

(xxix)(a) *Training Provider*: The Environmental Institute.

Address: 350 Franklin Rd., Suite 300, Marietta, GA 30067, Contact: Bill Ewing, Phone: (404) 425-2000.

(b) *Approved Courses*:

Contractor/Supervisor (Certified 10/28/88).
Contractor/Supervisor Annual Review (Certified 10/28/88).
Inspector/Management Planner (Certified 10/28/88).
Project Designer (Certified 10/28/88).

(xxx)(a) *Training Provider*: Tufts University Asbestos Information Center.
Address: 474 Boston Ave., Medford, MA 02155, Contact: Brenda Cole, Phone: (617) 381-3531.

(b) *Approved Courses*:

Abatement Worker (Certified 3/16/88).
Abatement Worker Annual Review (Certified 3/16/89).
Contractor/Supervisor (Certified 3/16/88).
Contractor/Supervisor Annual Review (Certified 3/16/89).
Inspector/Management Planner (Certified 3/16/88).
Inspector/Management Annual Review (Certified 3/16/89).
Project Designer (Certified 3/16/88).
Project Designer Annual Review (Certified 3/16/89).

(xxxi)(a) *Training Provider*: Universal Engineering Corp.

Address: 100 Boylston St., Boston, MA 02116, Contact: Janet Hester, Phone: (617) 542-8216.

(b) *Approved Courses*:

Project Designer (Certified 8/5/88).
Project Designer Annual Review (Certified 8/5/89).

(xxxii)(a) *Training Provider*: University of Massachusetts, Division of Environmental Health & Safety.

Address: N414 Morrill Science Center, Amherst, MA 01003, Contact: Donald Robinson, Phone: (413) 545-2682.

(b) *Approved Courses*:

Project Designer (Certified 10/3/88).
Project Designer Annual Review (Certified 10/3/88).

(xxxiii)(a) *Training Provider*: Weston-Atc, Inc.

Address: 1635 Pumphrey Ave., Auburn, AL 36830, Contact: Ron Thompson, Phone: (205) 826-6100.

(b) *Approved Courses*:

Contractor/Supervisor (Certified 5/25/89).
Contractor/Supervisor Annual Review (Certified 5/25/89).
Inspector/Management Planner (Certified 5/25/89).
Inspector/Management Annual Review (Certified 5/25/89).
Project Designer (Certified 5/25/89).
Project Designer Annual Review (Certified 5/25/89).

(9)(a) *State*: Michigan.

State Agency: State of Michigan Dept. of Public Health, Address: 3500 North Logan, P.O. Box 30035, Lansing, MI 48909, Contact: Bill DeLiefde, Phone: (517) 335-8186.

(b) *Approved Accreditation Program Disciplines*:

Abatement Worker (full from 4/13/89).
Contractor/Supervisor (full from 4/13/89).
Inspector (full from 4/13/89).
Inspector/Management Planner (full from 4/13/89).
Project Designer (full from 4/13/89).

Michigan Department of Public Health, EPA-Approved Courses for Abatement Workers, Contractors/Supervisors, Inspectors/Management Planners, and Project Designers

(i)(a) *Training Provider*: Alderink & Associates, Inc.

Address: 3221 3 Miles Rd. N.W., Grand Rapids, MI 49504, Contact: David Lutheuhoff, Phone: (616) 791-0730.

(b) *Approved Courses*:

Abatement Worker (Certified 11/28/89).
Abatement Worker Annual Review (Certified 11/28/89).
Contractor/Supervisor (Certified 11/28/89).

Contractor/Supervisor Annual Review (Certified 11/28/89).

(ii)(a) *Training Provider*: Asbestos Management, Inc.

Address: 36700 S. Huron Rd., New Boston, MI 48164, Contact: LaDonna Slifco, Phone: (313) 961-6135.

(b) *Approved Courses*:

Abatement Worker (Certified 12/20/89).
Abatement Worker Annual Review (Certified 12/20/89).
Contractor/Supervisor (Certified 12/20/89).
Contractor/Supervisor Annual Review (Certified 12/20/89).
Inspector/Management Planner (Certified 12/20/89).
Inspector/Management Annual Review (Certified 12/20/89).

(iii)(a) *Training Provider*: BDN Industrial Hygiene Consultants.

Address: 8105 Valleywood Ln., Portage, MI 49002, Contact: Brent Bassett, Phone: (616) 329-1237.

(b) *Approved Courses*:

Abatement Worker (Certified 11/13/89).
Abatement Worker Annual Review (Certified 11/13/89).
Contractor/Supervisor (Certified 11/13/89).
Contractor/Supervisor Annual Review (Certified 11/13/89).
Inspector/Management Planner (Certified 12/14/89).

(iv)(a) *Training Provider*: Barton Associates.

Address: 1265 Westport Rd., Ann Arbor, MI 48103, Contact: Sara Bassett, Phone: (313) 665-3681.

(b) *Approved Course*:

Contractor/Supervisor (Certified 9/18/89).
(v)(a) *Training Provider*: Bierlein Demolition.

Address: 2903 S. Graham Rd., Saginaw, MI 48603, Contact: Ramond E. Passeno, Phone: (517) 781-1810.

(b) *Approved Courses*:

Contractor/Supervisor (Certified 11/20/89).
Contractor/Supervisor Annual Review (Certified 11/20/89).

(vi)(a) *Training Provider*: DeLisle Associates, LTD.

Address: 6946 East N. Ave., Kalamazoo, MI 49001, Contact: Mark DeLisle, Phone: (616) 385-1018.

(b) *Approved Courses*:

Abatement Worker (Certified 12/12/89).
Abatement Worker Annual Review (Certified 12/12/89).
Contractor/Supervisor (Certified 12/12/89).

Contractor/Supervisor Annual Review (Certified 12/12/89).

Inspector/Management Planner (Certified 12/12/89).

Inspector/Management Annual Review (Certified 12/12/89).

(vii)(a) *Training Provider*: EMU Corporate Services.

Address: 3075 Washtenaw Ave., Ypsilanti, MI 48197, Contact: Bertrand Ramsay, Phone: (313) 487-2259.

(b) *Approved Courses*:

Abatement Worker (Certified 1/5/90).
Abatement Worker Annual Review (Certified 11/1/89).
Contractor/Supervisor (Certified 1/5/90).
Contractor/Supervisor Annual Review (Certified 1/5/90).

- Inspector/Management Planner (Certified 1/5/90).
Inspector/Management Annual Review (Certified 1/5/90).
(viii)(a) *Training Provider*: ENTELA Engineering Service.
Address: 4020 W. River Dr., Comstock Park, MI 49321, Contact: Bruce H. Connell, Phone: (616) 784-7774.
(b) *Approved Courses*:
Abatement Worker (Certified 9/26/89).
Abatement Worker Annual Review (Certified 12/14/89).
Contractor/Supervisor (Certified 9/26/89).
Contractor/Supervisor Annual Review (Certified 12/14/89).
(ix)(a) *Training Provider*: Envir. & Occ. Consult. & Trng.
Address: 3410 East Cork Street, Kalamazoo, MI 49001, Contact: A. Clark Kahn, Phone: (616) 388-6085.
(b) *Approved Courses*:
Abatement Worker (Certified 11/14/89).
Abatement Worker Annual Review (Certified 11/14/89).
Contractor/Supervisor (Certified 11/14/89).
Contractor/Supervisor Annual Review (Certified 11/14/89).
(x)(a) *Training Provider*: Fibertec Inc.
Address: 700 Abbott Rd., East Lansing, MI 48823, Contact: Matthew H. Frisch, Phone: (517) 351-0345.
(b) *Approved Course*:
Contractor/Supervisor (Certified 10/4/89).
(xi)(a) *Training Provider*: G & H Contracting Assoc.
Address: 300 Acron St., Plainwell, MI 49080, Contact: William Martin, Phone: (616) 685-1606.
(b) *Approved Courses*:
Abatement Worker (Certified 12/20/89).
Contractor/Supervisor (Certified 12/20/89).
(xii)(a) *Training Provider*: Industrial Environmental Consulting.
Address: 2875 Northwind, E. Lansing, MI 48823, Contact: Michael Tillotson, Phone: (517) 332-7026.
(b) *Approved Courses*:
Abatement Worker (Certified 1/2/90).
Abatement Worker Annual Review (Certified 1/2/90).
Contractor/Supervisor (Certified 1/2/90).
Contractor/Supervisor Annual Review (Certified 1/2/90).
Inspector/Management Planner (Certified 1/2/90).
Inspector/Management Annual Review (Certified 1/2/90).
(xiii)(a) *Training Provider*: Jensen Environmental & Training.
Address: 651 Fisher Rd., Grosse Pointe, MI 48230, Contact: Leonard L. Jensen, Phone: (313) 882-2021.
(b) *Approved Courses*:
Abatement Worker Annual Review (Certified 8/25/89).
Contractor/Supervisor Annual Review (Certified 8/25/89).
(xiv)(a) *Training Provider*: Manage Right Asbestos.
Address: 314 W. Genesee Ave., Saginaw, MI 48602, Contact: Mary Margaret Brown, Phone: (517) 753-9290.
(b) *Approved Courses*:
Abatement Worker (Certified 1/2/90).
Contractor/Supervisor (Certified 1/2/90).
(xv)(a) *Training Provider*: Michigan Laborers' Training.
Address: 11155 S. Beardslee Rd., Perry, MI 48872, Contact: Edwin H. McDonald, Phone: (517) 625-4919.
(b) *Approved Courses*:
Abatement Worker (Certified 9/12/89).
Abatement Worker Annual Review (Certified 9/12/89).
Contractor/Supervisor (Certified 9/12/89).
Contractor/Supervisor Annual Review (Certified 9/12/89).
(xvi)(a) *Training Provider*: Nova Environmental, Inc.
Address: 5340 Plymouth Rd., Suite 210, Ann Arbor, MI 48105, Contact: Kary S. Amin, Phone: (313) 930-0995.
(b) *Approved Courses*:
Contractor/Supervisor Annual Review (Certified 1/2/90).
Inspector/Management Annual Review (Certified 12/14/89).
(xvii)(a) *Training Provider*: SE MI Coalition on Occ Safety.
Address: 2727 Second Ave., Detroit, MI 48201, Contact: Barbara Boylan, Phone: (313) 961-3345.
(b) *Approved Courses*:
Abatement Worker (Certified 11/28/89).
Abatement Worker Annual Review (Certified 11/28/89).
(xviii)(a) *Training Provider*: Sierra Analytical & Consulting.
Address: 307 N. First St., Ann Arbor, MI 48103, Contact: David Green, Phone: (313) 662-1155.
(b) *Approved Course*:
Contractor/Supervisor (Certified 12/13/89).
(xix)(a) *Training Provider*: Summit Abatement Contracting.
Address: 7255 Tower Rd., Battle Creek, MI 49017, Contact: William Morris, Phone: (616) 968-4242.
(b) *Approved Courses*:
Abatement Worker (Certified 11/22/89).
Abatement Worker Annual Review (Certified 11/22/89).
Contractor/Supervisor (Certified 11/22/89).
Contractor/Supervisor Annual Review (Certified 11/22/89).
(xx)(a) *Training Provider*: Testing Engineers & Consultants.
Address: 1333 Rochester Rd., Troy, MI 48099, Contact: Karen Brunch, Phone: (313) 588-6200.
(b) *Approved Courses*:
Contractor/Supervisor (Certified 12/1/89).
Inspector/Management Planner (Certified 11/13/89).
Inspector/Management Annual Review (Certified 11/13/89).
(xxi)(a) *Training Provider*: Trust Thermal Systems.
Address: 13109 Schavey Rd., Suite 2 Dewitt, Dewitt, MI 48820, Contact: Thomas J. Lowe, Phone: (517) 669-8834.
(b) *Approved Courses*:
Abatement Worker (Certified 1/8/90).
Abatement Worker Annual Review (Certified 1/8/90).
Contractor/Supervisor (Certified 1/8/90).
Contractor/Supervisor Annual Review (Certified 1/8/90).
(xxii)(a) *Training Provider*: Wonder Makers, Inc.
Address: 3101 Darmo, Kalamazoo, MI 49008, Contact: Michael Printo, Phone: (616) 382-4154.
(b) *Approved Courses*:
Abatement Worker (Certified 11/20/89).
Abatement Worker Annual Review (Certified 11/20/89).
Contractor/Supervisor (Certified 11/20/89).
Contractor/Supervisor Annual Review (Certified 11/20/89).
Inspector/Management Planner (Certified 11/20/89).
Inspector/Management Annual Review (Certified 11/20/89).
(10)(a) *State*: Minnesota.
State Agency: Minnesota Dept. of Health Division of Environmental Health Section of Occupational Health, Address: 717 Southeast Delaware St., P.O. Box 59040, Minneapolis, MN 55459-0040, Contact: William A. Fetzner, Phone: (612) 623-5380.
(b) *Approved Accreditation Program Disciplines*:
Abatement Worker (full from 10/3/88).
Contractor/Supervisor (full from 10/3/88).

Minnesota Department of Health,
Division of Environmental Health,
Section of Occupational Health, EPA-
Approved Courses for Abatement
Workers and Contractors/Supervisors

(i)(a) *Training Provider:* Institute for Environmental Assessment, Inc.

Address: 2829 Ferndale Ave., Anoka, MN 55303, Contact: Jesse Lee, Phone: (612) 427-7870.

(b) *Approved Courses:*

Abatement Worker (Certified 11/12/89).
Abatement Worker Annual Review (Certified 11/12/89).

Contractor/Supervisor (Certified 11/12/89).

Contractor/Supervisor Annual Review (Certified 11/12/89).

(ii)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local No. 34.

Address: 708 South 10th St., Minneapolis, MN 55404, Contact: Lee Houske, Phone: (612) 332-3216.

(b) *Approved Courses:*

Abatement Worker (Certified 11/2/89).
Abatement Worker Annual Review (Certified 6/27/89).

Contractor/Supervisor (Certified 11/2/89).

Contractor/Supervisor Annual Review (Certified 6/27/89).

(iii)(a) *Training Provider:* McNeil Environmental, Inc.

Address: 755 East Cliff Rd., Burnsville, MN 55337, Contact: Philip Allmon, Phone: (612) 890-3452.

(b) *Approved Courses:*

Abatement Worker Annual Review (Certified 10/22/89).

Contractor/Supervisor Annual Review (Certified 10/22/89).

(iv)(a) *Training Provider:* Midwest Center for Occupational Health & Safety.

Address: 640 Jackson St., St. Paul, MN 55101, Contact: Jeanne F. Ayers, Phone: (612) 221-3992.

(b) *Approved Course:*

Contractor/Supervisor Annual Review (Certified 11/14/89).

(v)(a) *Training Provider:* Nova Environmental Services, Inc.

Address: Suite 420, Hazeltine Gates, 1107 Hazeltine Blvd., Chaska, MN 55318, Contact: Deborah S. Green, Phone: (612) 448-9393.

(b) *Approved Courses:*

Abatement Worker (Certified 11/20/89).
Abatement Worker Annual Review (Certified 11/20/89).

Contractor/Supervisor (Certified 11/20/89).

Contractor/Supervisor Annual Review (Certified 11/20/89).

(vi)(a) *Training Provider:* Southwest Technical College.

Address: Continuing Education, SW State University, FT 103, Marshall, MN 53103, Contact: Carole Treadway, Phone: (507) 537-7396.

(b) *Approved Courses:*

Abatement Worker (Certified 4/27/89).
Contractor/Supervisor (Certified 4/27/89).

(vii)(a) *Training Provider:* Twin City Area Carpenter's Joint Apprenticeship Committee/United Brotherhood of Carpenters & Joiners.

Address: 2203 County Rd. C2, Roseville, MN 55113, Contact: Gerald W. Setterholm, Phone: (612) 633-8096.

(b) *Approved Courses:*

Abatement Worker (Certified 6/14/89).
Contractor/Supervisor (Certified 6/14/89).

(11)(a) *State:* New Jersey.

State Agency: State of New Jersey Dept. of Health, Address: CN 360, Trenton, NJ 08625-0360, Contact: James A. Brownlee, Phone: (609) 984-2193.

(b) *Approved Accreditation Program Disciplines:*

Abatement Worker (full from 6/18/85).
Contractor/Supervisor (full from 6/18/85).

New Jersey Department of Health, EPA-Approved Courses for Abatement Workers and Contractors/Supervisors

*NOTE.—New Jersey-approved course providers who present the training in another State must develop their own examination. They must also submit a detailed statement about the development of the course examination, as required by the Model Plan, to the Regional Asbestos Coordinator in their Region for EPA approval.

(i)(a) *Training Provider:* A & S Training School.

Address: 99 South Cameron St., Harrisburg, PA 17101, Contact: Williams Roberts/Robyn Brunson, Phone: (800) 526-0890.

(b) *Approved Courses:*

Abatement Worker (Certified 5/20/85).
Contractor/Supervisor (Certified 5/20/85).

(ii)(a) *Training Provider:* Alternative Ways, Inc.

Address: Barclay Pavilion East, Suite 222, Rte. 70, Cherry Hill, NJ 08034, Contact: James Mitchell or Linda Pardi, Phone: (609) 795-1991.

(b) *Approved Courses:*

Abatement Worker (Certified 4/25/85).
Contractor/Supervisor (Certified 4/25/85).

(iii)(a) *Training Provider:* Asbestos Abatement Council, AWCI.

Address: 1600 Cameron St., Alexandria, VA 22314-2705, Contact: Carol Pacquin, Phone: (703) 684-2924.

(b) *Approved Courses:*

Abatement Worker (Certified 6/17/87 to 9/28/89 only).

Contractor/Supervisor (Certified 6/17/87 to 9/28/89 only).

(iv)(a) *Training Provider:* Asbestos Training Academy—NJ.

Address: 218 Cooper Center, Pennsauken, NJ 08109, Contact: Steve Sieracki/Elaine Alonzo, Phone: (609) 488-9200.

(b) *Approved Courses:*

Abatement Worker (Certified 5/1/85).
Contractor/Supervisor (Certified 5/1/85).

(v)(a) *Training Provider:* Asbestos Training Academy—NY.

Address: 315 West 36th St., 9th Fl., New York, NY 10018, Contact: Richard Green/Charlotte Hicks, Phone: (212) 971-0370.

(b) *Approved Courses:*

Abatement Worker (Certified 9/20/88).
Contractor/Supervisor (Certified 9/20/88).

(vi)(a) *Training Provider:* Asbestos Training Institute LVI, Inc.

Address: 64 South State St., South Hackensack, NJ 07606, Contact: Roger Bason, Phone: (201) 343-5133.

(b) *Approved Courses:*

Abatement Worker (Certified 3/4/87 to 9/13/89 only).

Contractor/Supervisor (Certified 3/4/87 to 9/13/89 only).

(vii)(a) *Training Provider:* BCN Eqstern, Inc.

Address: One Plymouth Meeting Mall, Plymouth Meeting, PA 19462, Contact: R. Ferguson or C. Sterchak, Phone: (215) 825-3800.

(b) *Approved Courses:*

Abatement Worker (Certified 6/7/87 to 9/29/89 only).

Contractor/Supervisor (Certified 6/7/87 to 9/29/89 only).

(viii)(a) *Training Provider:* Building Laborers of N.J.—Training Center.

Address: P.O. Box 163, Jamesburg, NJ 08831, Contact: Emmanuel Riggi/Pat Collura, Phone: (201) 521-0200.

(b) *Approved Courses:*

Abatement Worker (Certified 7/19/85).
Abatement Worker Annual Review (Certified 12/5/89).

Contractor/Supervisor (Certified 7/19/85).

Contractor/Supervisor Annual Review (Certified 12/5/89).

- (ix)(a) *Training Provider*: Certified Abatement Technologies, Inc.
Address: 47 Midland Ave., Elmwood Park, NJ 07407, Contact: Daniel Curtin/Denise Timmerman, Phone: (201) 796-9589.
(b) *Approved Courses*:
Abatement Worker (Certified 6/3/87).
Contractor/Supervisor (Certified 6/3/87).
- (x)(a) *Training Provider*: Drexel University.
Address: 32nd & Chestnut Sts., Philadelphia, PA 19104, Contact: Robert Ross, Phone: (215) 895-2156.
(b) *Approved Courses*:
Abatement Worker (Certified 4/13/88).
Contractor/Supervisor (Certified 4/13/88).
- (xi)(a) *Training Provider*: E.I. DuPont DeNemours & Co.
Address: Chamber Works, Deepwater, NJ 08023, Contact: Charles Battle, Phone: (609) 540-2434.
(b) *Approved Courses*:
Abatement Worker (Certified 5/1/86).
Abatement Worker Annual Review (Certified 6/12/89).
Contractor/Supervisor (Certified 5/1/86).
Contractor/Supervisor Annual Review (Certified 6/12/89).
- (xii)(a) *Training Provider*: IT Corporation.
Address: 17461 Derian Ave., Suite 190, Irvine, CA 92714, Contact: Keith Soesbe, Phone: (714) 261-6441.
(b) *Approved Courses*:
Abatement Worker (Certified 8/29/85).
Contractor/Supervisor (Certified 8/29/85).
- (xiii)(a) *Training Provider*: Kaselaan & D'Angelo Associates—NJ.
Address: 515 Grove St., Haddon Heights, NJ 08035, Contact: Steven L'Erario, Phone: (609) 547-6500.
(b) *Approved Courses*:
Abatement Worker (Certified 5/8/85).
Abatement Worker Annual Review (Certified 12/5/89).
Contractor/Supervisor (Certified 5/8/85).
Contractor/Supervisor Annual Review (Certified 12/5/89).
- (xiv)(a) *Training Provider*: Kaselaan & D'Angelo Associates—NY.
Address: 220 5th Ave, 17th Floor, New York, NY 10001, Contact: L. Fredericks/M. Cox-Abdalla, Phone: (212) 218-6340.
(b) *Approved Courses*:
Abatement Worker (Certified 8/28/89).
Contractor/Supervisor (Certified 8/28/89).
- (xv)(a) *Training Provider*: Local Union No. 14.
Address: 6513 Bustleton Ave., Philadelphia, PA 19149, Contact: James Aikens/Lewis Fitzgerald, Phone: (215) 533-0395.
(b) *Approved Courses*:
Abatement Worker (Certified 8/9/85).
Abatement Worker Annual Review (Certified 11/1/89).
Contractor/Supervisor (Certified 8/9/85).
Contractor/Supervisor Annual Review (Certified 11/1/89).
- (xvi)(a) *Training Provider*: Local Union No. 32.
Address: 870 Broadway, Newark, NJ 07104, Contact: Paul Ielmini/John Dwyer, Phone: (201) 485-3626.
(b) *Approved Courses*:
Abatement Worker (Certified 5/8/87).
Abatement Worker Annual Review (Certified 8/14/89).
Contractor/Supervisor (Certified 5/8/87).
Contractor/Supervisor Annual Review (Certified 8/14/89).
- (xvii)(a) *Training Provider*: Local Union No. 42.
Address: 1188 River Rd., New Castle, DE 19720, Contact: Joseph Noble, Phone: (302) 328-4203.
(b) *Approved Courses*:
Abatement Worker (Certified 10/30/85).
Contractor/Supervisor (Certified 10/30/85).
- (xviii)(a) *Training Provider*: Local Union No. 89.
Address: 2733 Nottingham Way, Trenton, NJ 08619, Contact: Charles DaBronzo/John DaBronzo, Phone: (609) 587-0092.
(b) *Approved Courses*:
Abatement Worker (Certified 5/13/86).
Abatement Worker Annual Review (Certified 11/27/89).
Contractor/Supervisor (Certified 5/13/86).
Contractor/Supervisor Annual Review (Certified 11/27/89).
- (xix)(a) *Training Provider*: Mid-Atlantic Asbestos Training Center UMDNJ.
Address: 675 Hoes Ln., Piscataway, NJ 08854, Contact: Lee Laustsen/Doris Daneluk, Phone: (201) 483-4500.
(b) *Approved Courses*:
Abatement Worker (Certified 7/1/86).
Contractor/Supervisor (Certified 7/1/86).
- (xx)(a) *Training Provider*: NDI Training Institute.
Address: 7112 Airport Highway, Pennsauken, NJ 08109, Contact: J. Rodney Walton/John O'Brien, Phone: (609) 663-5042.
(b) *Approved Courses*:
Abatement Worker (Certified 9/13/86).
Contractor/Supervisor (Certified 9/13/86).
- (xxi)(a) *Training Provider*: National Asbestos Council (NAC) Training Dept.
Address: 1777 Northeast Expressway, Suite 150, Atlanta, GA 30329, Contact: T. Laubenthal or V. Cornwell, Phone: (404) 633-2622.
(b) *Approved Courses*:
Abatement Worker (Certified 1/13/87).
Contractor/Supervisor (Certified 1/13/87).
- (xxii)(a) *Training Provider*: National Asbestos Training Institute.
Address: 1776 Bloomsbury Ave., Ocean, NJ 07712, Contact: Doris Adler or Lisa Criscuolo, Phone: (201) 918-0610.
(b) *Approved Courses*:
Abatement Worker (Certified 5/3/85).
Abatement Worker Annual Review (Certified 8/14/89).
Contractor/Supervisor (Certified 5/3/85).
Contractor/Supervisor Annual Review (Certified 8/14/89).
- (xxiii)(a) *Training Provider*: National Institute on Abatement Sciences and Technology.
Address: 114 West State St., P.O. Box 1780, Trenton, NJ 08607, Contact: Glenn Phillips, Phone: (800) 422-2836.
(b) *Approved Courses*:
Abatement Worker (Certified 1/16/88 to 6/22/89 only).
Contractor/Supervisor (Certified 1/16/88 to 6/22/89 only).
- (xxiv)(a) *Training Provider*: National Training Fund/Workers Institute for Safety & Health (WISH).
Address: 1126 16th St., NW, Washington, DC 20036, Contact: Scott Schneider, Phone: (202) 887-1980.
(b) *Approved Courses*:
Abatement Worker (Certified 3/31/89).
Contractor/Supervisor (Certified 3/31/89).
- (xxv)(a) *Training Provider*: Northeastern Analytical.
Address: 4 Stow Rd., Marlton, NJ 08053, Contact: R. Holwitt/M. Dutkiewicz, Phone: (609) 985-8000.
(b) *Approved Courses*:
Abatement Worker (Certified 5/20/85).
Abatement Worker Annual Review (Certified 6/30/89).
Contractor/Supervisor (Certified 5/20/85).
Contractor/Supervisor Annual Review (Certified 6/30/89).

(xxvi)(a) *Training Provider*: Princeton Testing Laboratory.

Address: 3490 U.S. Rte. 1, Princeton, NJ 08540-3108, Contact: Charles Schneekloth, Phone: (609) 452-9050.

(b) *Approved Courses*:

Abatement Worker (Certified 5/8/85).

Abatement Worker Annual Review (Certified 6/14/89).

Contractor/Supervisor (Certified 5/8/85).

Contractor/Supervisor Annual Review (Certified 6/14/89).

(xxvii)(a) *Training Provider*: Temple University.

Address: 12th & Norris St., Philadelphia, PA 19122, Contact: Melvin Benarde/Lester Levin, Phone: (215) 787-6394.

(b) *Approved Courses*:

Abatement Worker (Certified 11/24/87).
Contractor/Supervisor (Certified 11/24/87).

(xxviii)(a) *Training Provider*: White Lung Association—NJ.

Address: 901 Broad St., 2nd Floor, Newark, NJ 07102, Contact: A. Legoretta/C. Anderson, Phone: (201) 824-2623.

(b) *Approved Courses*:

Abatement Worker (Certified 5/21/85).
Contractor/Supervisor (Certified 5/21/85).

(xxix)(a) *Training Provider*: White Lung Association—NY.

Address: 12 Warren St., 4th Floor, New York, NY 10007, Contact: Nelson Helu/Barbara Zeluck, Phone: (212) 619-2270.

(b) *Approved Courses*:

Abatement Worker (Certified 9/21/88 to 12/21/89 only).

Contractor/Supervisor (Certified 9/28/88 to 12/21/89 only).

(12)(a) *State*: North Dakota.

State Agency: State Dept. of Health & Consolidated Laboratories, Address: 1200 Missouri Ave., Box 5520, Bismark, ND 58505, Contact: Ken Wangler, Phone: (701) 224-2348.

(b) *Approved Accreditation Program Disciplines*:

Abatement Worker (full from 4/21/89).
Contractor/Supervisor (full from 4/21/89).

Inspector (full from 4/21/89).

Inspector/Management Planner (full from 4/21/89).

Project Designer (full from 4/21/89).

North Dakota State Department of Health and Consolidated Laboratories, EPA-Approved Courses for Abatement Workers, Contractors/Supervisors, Inspectors/Management Planners, and Project Designers

(i)(a) *Training Provider*: Midwest Asbestos Consultants, Inc.

Address: Box 1708, Fargo, ND 58107, Contact: Jerry Day, Phone: (701) 280-2286.

(b) *Approved Courses*:

Abatement Worker (Certified 6/30/89).
Abatement Worker Annual Review (Certified 7/31/89).

(ii)(a) *Training Provider*: Survey Management and Design.

Address: R.R. 2 Box 85-B, Fargo, ND 58102, Contact: Dave Sohm, Phone: (701) 234-9556.

(b) *Approved Courses*:

Abatement Worker (Certified 6/13/89).
Abatement Worker Annual Review (Certified 1/5/90).

Contractor/Supervisor (Certified 6/13/89).

Contractor/Supervisor Annual Review (Certified 8/10/89).

Inspector/Management Planner (Certified 9/14/89).

(iii)(a) *Training Provider*: University of North Dakota.

Address: University Station, Grand Forks, ND 58201, Contact: Dale Patrick, Phone: (701) 777-3341.

(b) *Approved Courses*:

Abatement Worker (Certified 6/13/89).
Contractor/Supervisor (Certified 6/13/89).

(13)(a) *State*: Oregon.

State Agency: State of Oregon Dept. of Environmental Quality, Address: 811 Southwest Sixth Ave., Portland, OR 97204-1390, Contact: Bruce E. Arnold, Phone: (503) 229-5506.

(b) *Approved Accreditation Program Disciplines*:

Abatement Worker (full from 9/23/88).
Contractor/Supervisor (full from 9/23/88).

Oregon Department of Environmental Quality, EPA-Approved Courses for Abatement Workers and Contractors/Supervisors

(i)(a) *Training Provider*: Asbestos Training Project Workplace Resources.

Address: P.O. Box 11053, Eugene, OR 97440, Contact: Wendy Wiles, Phone: (503) 345-7393.

(b) *Approved Courses*:

Abatement Worker (Certified 9/23/88).
Contractor/Supervisor (Certified 9/23/89).

(ii)(a) *Training Provider*: Hall-Kimbrell Environmental Services.

Address: 5319 Southwest Westgate, Suite 239, Portland, OR 97221, Contact: Kelly Champion, Phone: (503) 292-9406.

(b) *Approved Courses*:

Abatement Worker (Certified 12/28/88).
Contractor/Supervisor (Certified 9/7/89).

(iii)(a) *Training Provider*: Hazcon, Inc.

Address: 9500 Southwest Barbur, Portland, OR 97219, Contact: Tom Natsch, Phone: (503) 244-8045.

(b) *Approved Courses*:

Abatement Worker (Certified 9/23/88).
Contractor/Supervisor (Certified 9/23/88).

(iv)(a) *Training Provider*: Laborers/AGC Apprenticeship & Training Program.

Address: Route 5, Box 325A, Corvallis, OR 97330, Contact: Bill Duke, Phone: (503) 745-5513.

(b) *Approved Courses*:

Abatement Worker (Certified 9/23/88).
Contractor/Supervisor (Certified 9/23/88).

(v)(a) *Training Provider*: Marine & Environmental Testing, Inc.

Address: P.O. Box 1142, Beaverton, OR 97075, Contact: Martin Finkel, Phone: (503) 286-2950.

(b) *Approved Course*:

Abatement Worker (Certified 12/3/88 to 9/18/89 only).

(vi)(a) *Training Provider*: NAC Corporation.

Address: 1005 NW Galveston, Suite E, Bend, OR 97701, Contact: Dale Schmidt, Phone: (503) 389-9727.

(b) *Approved Course*:

Abatement Worker (Certified 3/23/89).

(vii)(a) *Training Provider*: Northwest Envirocon, Inc.

Address: P.O. Box 169, Washougal, WA 98671, Contact: Jack Tenhonen, Phone: (206) 835-8576.

(b) *Approved Courses*:

Abatement Worker (Certified 12/14/88).
Contractor/Supervisor (Certified 12/14/88).

(14)(a) *State*: Rhode Island.

State Agency: State of Rhode Island & Providence Plantations, Department of Health, Address: 206 Cannon Bldg., Three Capitol Hill, Providence, RI 02908, Contact: William Dundulis, Jr., Phone: (401) 277-3601.

(b) *Approved Accreditation Program Disciplines*:

Abatement Worker (full from 2/4/86).
Contractor/Supervisor (full from 2/4/86).

*Rhode Island Department of Health,
EPA-Approved Courses for Abatement
Workers and Contractors/Supervisors*

(i)(a) *Training Provider:* A & S
Training School, Inc.

Address: 99 South Cameron St.,
Harrisburg, PA 17101, Contact:
William I. Roberts, Phone: (717) 257-
1360.

(b) *Approved Course:*

Contractor/Supervisor (Certified 3/31/
89).

(ii)(a) *Training Provider:* Analytical
Testing Services, Inc.

Address: 180 Weeden St., Pawtucket, RI
02860, Contact: Robert Weisberg,
Phone: (401) 723-7978.

(b) *Approved Courses:*

Abatement Worker Annual Review
(Certified 12/10/86).

Contractor/Supervisor Annual Review
(Certified 12/10/86).

Initial Supervisor 6 Hour Supplement
(Certified 1/24/89).

(iii)(a) *Training Provider:* Asbestos
Consulting & Training Systems.

Address: 903 NW 6th Avenue, Fort
Lauderdale, FL 33311, Contact: James
F. Stump, Phone: (305) 524-7208.

(b) *Approved Course:*

Abatement Worker (Certified 11/21/89).

(iv)(a) *Training Provider:* Center for
Environmental Management-Tufts
University.

Address: 474 Boston Ave., Medford, MA
02155, Contact: Brenda Cole, Phone:
(617) 381-3531.

(b) *Approved Courses:*

Abatement Worker (Certified 7/1/86).

Abatement Worker Annual Review
(Certified 3/31/89).

Contractor/Supervisor (Certified 7/1/
86).

Contractor/Supervisor Annual Review
(Certified 3/31/89).

(v)(a) *Training Provider:* Certified
Engineering & Testing Co., Inc.

Address: 100 Grossman Dr., Braintree,
MA 02184, Contact: Robert
Thornburgh, Phone: (617) 849-0111.

(b) *Approved Courses:*

Abatement Worker (Certified 8/22/89).

Abatement Worker Annual Review
(Certified 8/22/89).

Contractor/Supervisor (Certified 8/22/
89).

Contractor/Supervisor Annual Review
(Certified 8/22/89).

(vi)(a) *Training Provider:* Community
College of Rhode Island.

Address: 1762 Louisquisset Pk., Lincoln,
RI 02865, Contact: Richard Tessler,
Phone: (401) 333-7166.

(b) *Approved Courses:*

Abatement Worker (Certified 11/13/87).

Abatement Worker Annual Review
(Certified 3/31/89).

Contractor/Supervisor Annual Review
(Certified 3/31/89).

Initial Supervisor 6 Hour Supplement
(Certified 1/1/90).

(vii)(a) *Training Provider:* Con-Test
Educational Center.

Address: 39 Spruce St., East
Longmeadow, MA 01028, Contact:
Brenda Bolduc, Phone: (413) 525-1198.

(b) *Approved Courses:*

Abatement Worker (Certified 3/1/86).

Abatement Worker Annual Review
(Certified 2/8/89).

Contractor/Supervisor (Certified 3/1/
86).

Contractor/Supervisor Annual Review
(Certified 2/8/89).

(viii)(a) *Training Provider:* Dennison
Environmental, Inc.

Address: 74 Commerce Way, Woburn,
MA 01801, Contact: Joan Lion, Phone:
(617) 932-9400.

(b) *Approved Courses:*

Abatement Worker (Certified 4/30/89).

Abatement Worker Annual Review
(Certified 4/30/89).

Contractor/Supervisor (Certified 4/30/
89).

Contractor/Supervisor Annual Review
(Certified 4/30/89).

Initial Supervisor 6 Hour Supplement
(Certification Pending).

(ix)(a) *Training Provider:* Environmed
Services, Inc.

Address: 25 Science Park, New Haven,
CT 06511, Contact: George Giacco, Jr.,
Phone: (203) 786-5580.

(b) *Approved Courses:*

Abatement Worker (Certified 9/28/89).

Contractor/Supervisor (Certified 9/28/
89).

(x)(a) *Training Provider:*

Environmental Training Services.

Address: 62—H Montvale Pl., Stoneham,
MA 02180, Contact: Maryann Martin,
Phone: (617) 279-0855.

(b) *Approved Courses:*

Abatement Worker (Certification
Pending).

Abatement Worker Annual Review
(Certification Pending).

Contractor/Supervisor (Certification
Pending).

Contractor/Supervisor Annual Review
(Certification Pending).

Initial Supervisor 6 Hour Supplement
(Certification Pending).

(xi)(a) *Training Provider:* Georgia
Institute of Technology/GTRI.

Address: 151 6th St., Atlanta, GA 30332,
Contact: Mark Demyanek, Phone:
(404) 894-3308.

(b) *Approved Courses:*

Abatement Worker (Certified 7/22/88).

Abatement Worker Annual Review
(Certified 2/14/89).

Contractor/Supervisor (Certified 7/22/
88).

Contractor/Supervisor Annual Review
(Certified 2/14/89).

(xii)(a) *Training Provider:* Harvard
School of Public Health.

Address: 677 Huntington Ave., Boston,
MA 02115, Contact: Louis
DiBerardinis, Phone: (617) 732-1171.

(b) *Approved Courses:*

Abatement Worker (Certification
Pending).

Contractor/Supervisor (Certification
Pending).

(xiii)(a) *Training Provider:* Heat &
Frost Insulation Union Local No. 6.

Address: 56 Roland St., Boston, MA
02129, Contact: Anthony Pistorino,
Phone: (617) 625-6666.

(b) *Approved Courses:*

Abatement Worker (Certified 3/2/89).

Contractor/Supervisor (Certified 3/2/
89).

(xiv)(a) *Training Provider:* Hygeia,
Inc.

Address: 303 Bear Hill Rd., Waltham,
MA 02154, Contact: Cynthia Whalen,
Phone: (617) 890-4999.

(b) *Approved Course:*

Abatement Worker (Certified 1/31/89).

(xv)(a) *Training Provider:*
Hygienetics, Inc.

Address: 150 Causeway St., Boston, MA
02114, Contact: Russell Matthews,
Phone: (617) 723-4664.

(b) *Approved Courses:*

Abatement Worker (Certified 5/10/89).

Abatement Worker Annual Review
(Certified 5/10/89).

Contractor/Supervisor (Certified 5/10/
89).

Contractor/Supervisor Annual Review
(Certified 5/10/89).

(xvi)(a) *Training Provider:* Institute
for Environmental Education.

Address: 208 West Cummings Pk.,
Woburn, MA 01801, Contact: Lisa
Stammer, Phone: (617) 935-7370.

(b) *Approved Courses:*

Abatement Worker (Certified 9/9/87).

Abatement Worker Annual Review
(Certified 5/8/89).

Contractor/Supervisor (Certified 9/9/
87).

Contractor/Supervisor Annual Review
(Certified 5/8/89).

(xvii)(a) *Training Provider:* Mystic Air
Quality Consultants.

Address: 1085 Buddington Rd., Groton, CT 06340, Contact: Christopher Eident, Phone: (203) 449-8903.

(b) *Approved Course:*

Contractor/Supervisor (Certified 1/31/89).

(xviii)(a) *Training Provider:* NAACO.

Address: 790 Turnpike St., North Andover, MA 01845, Contact: Martin Levitt, Phone: (508) 681-8711.

(b) *Approved Courses:*

Abatement Worker (Certified 4/28/88).

Abatement Worker Annual Review (Certified 4/3/89).

Contractor/Supervisor Annual Review (Certified 4/3/89).

Initial Supervisor 6 Hour Supplement (Certified 4/3/89).

(xix)(a) *Training Provider:* National Asbestos Council, (NAC) Training Dept.

Address: 1777 Northeast Expressway, Suite 150, Atlanta, GA 30329, Contact: Tom Laubenthal, Phone: (404) 633-2622.

(b) *Approved Course:*

Abatement Worker (Certified 9/5/86).

(xx)(a) *Training Provider:* National Training Fund/Workers Institute for Safety & Health (WISH).

Address: 1126 16th St., NW, Washington, DC 20036, Contact: Mathew Gillen, Phone: (202) 887-1980.

(b) *Approved Courses:*

Abatement Worker (Certified 1/31/89).

Abatement Worker Annual Review (Certified 1/31/89).

Contractor/Supervisor (Certified 1/31/89).

Contractor/Supervisor Annual Review (Certified 1/31/89).

(xxi)(a) *Training Provider:* New England Laborers Training Trust Fund.

Address: 37 East St., Hopkinton, MA 01748, Contact: James Merloni, Phone: (508) 435-6316.

(b) *Approved Courses:*

Abatement Worker (Certified 7/1/86).

Abatement Worker Annual Review (Certified 2/15/89).

Contractor/Supervisor Annual Review (Certified 2/15/89).

Initial Supervisor 6 Hour Supplement (Certified 2/15/86).

(xxii)(a) *Training Provider:* Quality Control Services, Inc.

Address: 10 Lowell Junction Rd., Andover, MA 01810, Contact: Ajay Pathak, Phone: (508) 475-0623.

(b) *Approved Courses:*

Abatement Worker (Certified 4/27/88).

Abatement Worker Annual Review (Certified 3/10/89).

Contractor/Supervisor (Certified 4/27/88).

Contractor/Supervisor Annual Review (Certified 3/10/89).

(xxiii)(a) *Training Provider:* Safe Environment Corp.

Address: 100 Moody St., Suite 200, Ludlow, MA 01056, Contact: Anne Folta, Phone: (413) 289-1409.

(b) *Approved Courses:*

Abatement Worker (Certified 1/31/89).

Abatement Worker Annual Review (Certification Pending).

Contractor/Supervisor (Certified 1/31/89).

Contractor/Supervisor Annual Review (Certification Pending).

(15)(a) *State:* South Dakota.

State Agency: Dept. of Water & Natural Resources Division of Air Quality & Solid Waste, Address: Joe Foss Building, 523 East Capitol St., Pierre, SD 57501, Contact: Tammy LeBeau, Phone: (605) 773-3153.

(b) *Approved Accreditation Program Disciplines:*

Abatement Worker (full from 9/15/88).

Contractor/Supervisor (full from 9/15/88).

Inspector/Management Planner (full from 9/15/88).

Project Designer (full from 9/15/88).

South Dakota Department of Water and Natural Resources, EPA-Approved Courses for Abatement Workers, Contractors/Supervisors, Inspectors/Management Planners, and Project Designers

(i)(a) *Training Provider:* Black Hills Special Services Cooperative.

Address: Box 218, Sturgis, SD 57784, Contact: Jim Doolittle, Phone: (605) 347-4467.

(b) *Approved Courses:*

Abatement Worker (Certified 3/22/89).

Contractor/Supervisor (Certified 3/22/89).

Inspector/Management Planner (Certified 3/22/89).

(ii)(a) *Training Provider:* Enviro-safe Inc.

Address: P.O. Box 328, Wakonda, SD 57073, Contact: John Mathrol, Phone: (605) 267-2539.

(b) *Approved Courses:*

Abatement Worker (Certified 2/28/89).

Contractor/Supervisor (Certified 2/28/89).

Inspector/Management Planner (Certified 2/28/89).

(iii)(a) *Training Provider:* Fargo—Moorhead Carpenters Joint Apprenticeship & Training Committee.

Address: 3002 1st Ave., N., Fargo, ND 58102, Contact: Raymond Such, Phone: (701) 235-4981.

(b) *Approved Courses:*

Abatement Worker (Certified 4/20/89).

Contractor/Supervisor (Certified 4/20/89).

(iv)(a) *Training Provider:* Iowa Laborers Training Fund.

Address: 5806 Meredith Ave., Suite C, Des Moines, IA 50322, Contact: Jack Jones, Phone: (515) 270-6965.

(b) *Approved Course:*

Abatement Worker (Certified 3/22/88).

(v)(a) *Training Provider:* South Dakota State University College of Engineering.

Address: P.O. Box 2218, Brookings, SD 57007-0597, Contact: James Ceglian, Phone: (605) 688-4107.

(b) *Approved Courses:*

Abatement Worker (Certified 5/18/88).

Contractor/Supervisor (Certified 5/18/88).

Inspector/Management Planner (Certified 5/18/88).

(16)(a) *State:* Utah.

State Agency: Utah Dept. of Health Bureau of Air Quality, Address: 288 North 1460 West, P.O. Box 16690, Salt Lake City, UT 84116-0690, Contact: F. Burnell Cordner, Phone: (801) 538-6108.

(b) *Approved Accreditation Program Disciplines:*

Abatement Worker (full from 7/8/89).

Contractor/Supervisor (full from 7/8/89).

Inspector/Management Planner (full from 7/8/89).

Project Designer (full from 7/8/89).

Utah Bureau of Air Quality, EPA-Approved Courses for Abatement Workers, Contractors/Supervisors, Inspectors/Management Planners, and Project Designers

(i)(a) *Training Provider:* R.S. Christiansen Asbestos Consultants, Inc.

Address: 4980 Holladay Blvd., Salt Lake City, UT 84117, Contact: Stanley Christiansen, Phone: (801) 277-2323.

(b) *Approved Course:*

Abatement Worker Annual Review (Certified 7/28/89).

(ii)(a) *Training Provider:* Utah Caprenters Joint Apprenticeship & Training Committee.

Address: 2261 S. Redwood Rd., Suite J, Salt Lake City, UT 84119, Contact: Ken Mayne, Phone: (801) 972-5147.

(b) *Approved Courses:*

Abatement Worker (Certified 10/16/89).

Contractor/Supervisor (Certified 10/16/89).

(iii)(a) *Training Provider:* Utah Correctional Industries.

Address: P.O. Box 850, Draper, UT 84020-850, Contact: Vic Middleton, Phone: (801) 571-9264.

(b) *Approved Course:*

Contractor/Supervisor (Certified 9/25/89).

(17)(a) *State:* Virginia.

State Agency: Commonwealth of Virginia Dept. of Commerce, Address: 3600 West Broad St., Richmond, VA 23230-4917, Contact: Peggy J. Wood, Phone: (804) 367-8595.

(b) *Approved Accreditation Program Disciplines:*

Abatement Worker (full from 7/1/88).

Contractor/Supervisor (full from 7/1/88).

Inspector/Management Planner (full from 7/1/88).

Project Designer (full from 7/1/88).

Virginia Department of Commerce, EPA-Approved Courses for Abatement Workers, Contractors/Supervisors, Inspectors/Management Planners, and Project Designers

(i)(a) *Training Provider:* Aerosol Monitoring & Analysis.

Address: The Commons Corporate Center, 1341 Ashton Rd., Suite A, Hanover, MD 21076, Contact: Steve Blizzard, Phone: (800) 221-1745.

(b) *Approved Course:*

Contractor/Supervisor (Certified 10/31/89).

(ii)(a) *Training Provider:* Alice Hamilton Occupational Health Center.

Address: 410 7th St., SE, 2nd Floor, Washington, DC 20003, Contact: Brian Christopher, Phone: (202) 543-0005.

(b) *Approved Courses:*

Abatement Worker (Certified 3/2/88).

Contractor/Supervisor (Certified 3/2/88).

Inspector/Management Planner (Certified 3/2/88).

(iii)(a) *Training Provider:* Asbestos Analytical Association.

Address: 3208-B George Washington Hwy., Portsmouth, VA 23704, Contact: Carol Holden, Phone: (804) 397-0695.

(b) *Approved Courses:*

Abatement Worker (Certified 7/27/88).

Contractor/Supervisor (Certified 7/27/88).

Inspector/Management Planner (Certified 7/27/88).

(iv)(a) *Training Provider:* Biospherics, Inc.

Address: 12051 Indian Creek Ct., Beltsville, MD 20705, Contact: Jean Fisher, Phone: (301) 369-3900.

(b) *Approved Courses:*

Abatement Worker (Certified 9/13/88).

Contractor/Supervisor (Certified 9/13/88).

Inspector/Management Planner (Certified 9/13/88).

(v)(a) *Training Provider:* Briggs Assoc. Inc.

Address: 8325 Guilford Rd., Suite E, Columbia, MD 21046, Contact: J. Roos Voorhees, Phone: (301) 381-4434.

(b) *Approved Course:*

Abatement Worker (Certification Pending).

(vi)(a) *Training Provider:* Critical Environmental.

Address: 5815 Gulf Freeway, Houston, TX 77023, Contact: Dr. Ronald F. Dodson, Phone: (713) 921-8921.

(b) *Approved Courses:*

Abatement Worker (Certification Pending).

Contractor/Supervisor (Certification Pending).

Inspector/Management Planner (Certification Pending).

(vii)(a) *Training Provider:* E.I. DuPont DeNemours & Co., Inc.

Address: Spruance Plant, P.O. Box 27001, Richmond, VA 23261, Contact: Clarence Mihal, Phone: (804) 743-2948.

(b) *Approved Courses:*

Abatement Worker (Certified 5/11/88).

Contractor/Supervisor (Certified 5/11/88).

(viii)(a) *Training Provider:* Environmental Specialties, Inc.

Address: P.O. Box 130, Hopewell, VA 23860, Contact: Lewis Stevenson, Phone: (804) 458-1541.

(b) *Approved Courses:*

Abatement Worker (Certified 5/1/89).

Contractor/Supervisor (Certified 5/1/89).

(ix)(a) *Training Provider:* Fluor Daniel.

Address: The Daniel Bldg., 301 North Main St., Greenville, SC 29601, Contact: Rick Florence, Phone: (803) 298-2166.

(b) *Approved Courses:*

Abatement Worker (Certified 6/24/88).

Contractor/Supervisor (Certified 6/24/88).

(x)(a) *Training Provider:* GST Company.

Address: 1341 Old Freedom Rd., Suite 3B, Mars, PA 16046, Contact: Norma Stanford, Phone: (412) 772-7488.

(b) *Approved Courses:*

Abatement Worker (Certified 6/1/89).

Contractor/Supervisor (Certified 6/1/89).

(xi)(a) *Training Provider:* Georgia Tech Research Group.

Address: Georgia Tech Institute of Technology, Atlanta, GA 30332,

Contact: Vicki H. Ainslie, Phone: (404) 895-3806.

(b) *Approved Course:*

Contractor/Supervisor (Certified 5/1/89).

(xii)(a) *Training Provider:* Hall-Kimbrell Environmental Services.

Address: 4840 West 15th St., P.O. Box 307, Lawrence, KS 66046, Contact: Steve Davis, Phone: (804) 270-7235.

(b) *Approved Courses:*

Abatement Worker (Certified 5/23/88).

Contractor/Supervisor (Certified 5/23/88).

(xiii)(a) *Training Provider:* Harman Engineering Associates, Inc.

Address: 1550 Pumphrey Ave., Auburn, AL 36830, Contact: Dave Schrimsher, Phone: (205) 821-9250.

(b) *Approved Course:*

Abatement Worker (Certified 9/21/89).

(xiv)(a) *Training Provider:* Hazard Abatement Consultants.

Address: 5 Breechwood Rd., Hampton, VA 23666, Contact: Thomas Priesman, Phone: (804) 825-0302.

(b) *Approved Course:*

Abatement Worker (Certified 6/1/89).

(xv)(a) *Training Provider:* Ind-Tra-Co., Ltd.

Address: 511 W. Grace St., Richmond, VA 23220, Contact: Ernest Drew, Phone: (804) 648-7836.

(b) *Approved Courses:*

Abatement Worker (Certified 3/7/88).

Contractor/Supervisor (Certified 3/7/88).

Inspector/Management Planner (Certified 3/7/88).

(xvi)(a) *Training Provider:* Industrial Training & Support Services.

Address: P.O. Box 496, Lightfoot, VA 23090, Contact: Virginia Graham, Phone: (804) 565-3308.

(b) *Approved Course:*

Abatement Worker (Certified 10/22/88).

(xvii)(a) *Training Provider:* Institute for Environmental Education.

Address: 208 West Cummings Pk., Woburn, MA 01801, Contact: Lisa Stammer, Phone: (617) 935-0664.

(b) *Approved Courses:*

Abatement Worker (Certification Pending).

Contractor/Supervisor (Certification Pending).

Inspector (Certification Pending).

(xviii)(a) *Training Provider:* Jenkins Professionals Inc.

Address: 5502 Campbell Blvd., Suite F, Baltimore, MD 21236, Contact: Larry Jenkins, Phone: (301) 529-3553.

- (b) *Approved Courses:*
Abatement Worker (Certified 12/27/89).
Contractor/Supervisor (Certified 12/27/89).
- (xix)(a) *Training Provider:* Laborers District Council of Virginia Training Trust Fund.
Address: 4191 Rochambeau Dr., Williamsburg, VA 23185, Contact: Roy Brightwell, Phone: (804) 564-8148.
- (b) *Approved Course:*
Abatement Worker (Certified 8/8/88).
- (xx)(a) *Training Provider:* Marcus Environmental.
Address: 6345 Courthouse Rd., P.O. Box 227, Prince George, VA 23875, Contact: Marshall Marcus, Phone: (804) 733-1855.
- (b) *Approved Courses:*
Abatement Worker (Certified 2/13/89).
Contractor/Supervisor (Certified 2/13/89).
- (xxi)(a) *Training Provider:* Maryland Center for Environmental Training-Charles County Community College.
Address: Mitchell Rd., P.O. Box 910, LaPlata, MD 20646-0910, Contact: Jake Bair, Phone: (301) 934-2251.
- (b) *Approved Courses:*
Abatement Worker (Certified 5/19/89).
Contractor/Supervisor (Certified 5/19/89).
- (xxii)(a) *Training Provider:* Medical College of Virginia Dept. of Preventive Medicine.
Address: P.O. Box 212, Richmond, VA 23298, Contact: Leonard Vance, Phone: (804) 786-9785.
- (b) *Approved Courses:*
Abatement Worker (Certified 12/8/87).
Contractor/Supervisor (Certified 3/8/87).
- Inspector/Management Planner (Certified 12/8/87).
- (xxiii)(a) *Training Provider:* Metropolitan Laboratories.
Address: P.O. Box 8921, Norfolk, VA 23503, Contact: Ethel Holmes, Phone: (804) 583-9444.
- (b) *Approved Courses:*
Abatement Worker (Certified 8/4/88).
Contractor/Supervisor (Certified 8/4/88).
- (xxiv)(a) *Training Provider:* Norfolk Shipbuilding & Dry Dock Co.
Address: P.O. Box 2100, Norfolk, VA 23501, Contact: Thomas Beacham, Phone: (804) 494-2940.
- (b) *Approved Course:*
Abatement Worker (Certified 6/15/88).
- (xxv)(a) *Training Provider:* OMC.
Address: 4451 Parliament Place, Lanham, MD 20706, Contact: Ellen J. Kite, Phone: (301) 306-0632.
- (b) *Approved Course:*
Contractor/Supervisor (Certified 8/25/89).
- (xxvi)(a) *Training Provider:* Old Dominion University.
Address: Office of Health Sciences, Norfolk, VA 23529, Contact: Shirley Glover, Phone: (804) 440-4256.
- (b) *Approved Courses:*
Abatement Worker (Certified 6/8/88).
Contractor/Supervisor (Certified 6/8/88).
- Inspector/Management Planner (Certified 6/8/88).
- (xxvii)(a) *Training Provider:* Quality Specialties, Inc.
Address: 109 15th Ave., Hopewell, VA 23860, Contact: Mike Rhodes, Phone: (804) 748-9606.
- (b) *Approved Course:*
Abatement Worker (Certified 5/3/88).
- (xxviii)(a) *Training Provider:* Retra Services.
Address: 1730 S. Alt. 19, Suite H, Tarpon Springs, FL 34689, Contact: David Sarvadi, Phone: (703) 791-5404.
- (b) *Approved Course:*
Abatement Worker (Certified 8/18/89).
- (xxix)(a) *Training Provider:* Roy F. Weston, Inc.
Address: 1635 Pumphrey Ave., Auburn, AL 36830, Contact: Michael Skotnick, Phone: (205) 826-6100.
- (b) *Approved Course:*
Inspector/Management Planner (Certified 12/27/89).
- (xxx)(a) *Training Provider:* S.G. Brown, Inc.
Address: 2701 Sonic Dr., Virginia Beach, VA 23334, Contact: George Torrence, Phone: (804) 468-0027.
- (b) *Approved Course:*
Abatement Worker (Certified 6/10/88).
- (xxxi)(a) *Training Provider:* State Council of Carpenters of Virginia.
Address: 3801 Jefferson Davis Hwy., Richmond, VA 23234, Contact: Frank Hollis, Phone: (804) 275-0701.
- (b) *Approved Courses:*
Abatement Worker (Certified 8/31/89).
Contractor/Supervisor (Certified 8/31/89).
- (xxxii)(a) *Training Provider:* The Francis L. Greenfield Institute.
Address: Route 6344, P.O. Box 217, Sterling, VA 22170, Contact: Bengamin Bostic, Phone: (703) 450-5950.
- (b) *Approved Course:*
Abatement Worker (Certified 10/10/88).
- (xxxiii)(a) *Training Provider:* Tidewater Community College.
Address: VA Beach Campus, 1700 College Crescent, Virginia Beach, VA 23456, Contact: Sam Lamb, Phone: (804) 427-7198.
- (b) *Approved Course:*
Abatement Worker (Certified 3/21/89).
- (xxxiv)(a) *Training Provider:* University of Virginia National Asbestos Council Division of Continuing Education.
Address: 106 Midmont Lake, Charlottesville, VA 22903, Contact: Gregory Pels, Phone: (804) 924-7114.
- (b) *Approved Course:*
Abatement Worker (Certified 3/7/88).
- (xxxv)(a) *Training Provider:* Waco, Inc.
Address: Highway 925, N, Waldorf, MD 20601, Contact: Wayne Cooper, Phone: (301) 843-2488.
- (b) *Approved Courses:*
Abatement Worker (Certified 10/31/88).
Contractor/Supervisor (Certified 10/31/88).
- (xxxvi)(a) *Training Provider:* White Lung Association.
Address: 1601 St. Paul St., Baltimore, MD 21202, Contact: James Fite, Phone: (301) 727-6029.
- (b) *Approved Course:*
Inspector/Management Planner (Certified 7/11/88).
- (18)(a) *State:* Washington.
State Agency: Washington Department of Labor and Industries, Division of Industrial Safety and Health, Address: 300 West Harrison St., Seattle, WA 98119, Contact: James Catalano, Phone: (206) 281-5325.
- (b) *Approved Accreditation Program Disciplines:*
Abatement Worker (full from 11/10/89).
Contractor/Supervisor (full from 11/10/89).
- Washington Department of Labor and Industries Division of Safety and Health, EPA-Approved Courses for Abatement Workers and Contractors/Supervisors*
- (i)(a) *Training Provider:* Asbestos Training Project/Worker Resources.
Address: P.O. Box 11053, Eugene, OR 97440, Contact: Wendy Wiles, Phone: (503) 345-7393.
- (b) *Approved Courses:*
Abatement Worker.
Abatement Worker Annual Review.
- (ii)(a) *Training Provider:* Bison Engineering/Research.
Address: 1020 S. 344th No. 204, Federal Way, WA 98003, Contact: Don Hurst, Phone: (206) 838-7261.
- (b) *Approved Course:*
Abatement Worker.

- (iii)(a) *Training Provider*: Chen-Northern, Inc.
Address: 600 South 25th St., P.O. Box 30615, Billings, MT 59107, Contact: Kathleen Smit, Phone: (406) 248-9282.
(b) *Approved Course*:
Abatement Worker.
(iv)(a) *Training Provider*: Enviro-tec, Inc.
Address: 2825-152nd Ave. NE, Redmond, WA 98052, Contact: Lawrence Short, Phone: (206) 867-5111.
(b) *Approved Course*:
Abatement Worker.
(v)(a) *Training Provider*: Environmental Health Sciences, Inc.
Address: 9 Lake Bellevue Bldg., Suite 104, Bellevue, WA 98005, Contact: Sheila Plumacher, Phone: (206) 455-2959.
(b) *Approved Courses*:
Abatement Worker.
Contractor/Supervisor.
(vi)(a) *Training Provider*: Environmental Management, Inc.
Address: P.O. Box 91477, Anchorage, AK 99509, Contact: Kenneth Johnson, Phone: (907) 272-8056.
(b) *Approved Course*:
Abatement Worker.
(vii)(a) *Training Provider*: Environmental Management, Inc.
Address: P.O. Box 363, Wauna, WA 98395, Contact: Ray Donahue, Phone: (206) 857-3222.
(b) *Approved Course*:
Abatement Worker.
(viii)(a) *Training Provider*: Hall-Kimbrell Environmental Services, Inc.
Address: 5319 SW Westgate, No. 239, Portland, OR 97221, Contact: Peter Clark, Phone: (503) 292-9406.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(ix)(a) *Training Provider*: Hazcon, Inc.
Address: 9500 SW Barbur Blvd., Suite 100, Portland, OR 97219, Contact: Tom Natsch, Phone: (503) 244-8045.
(b) *Approved Course*:
Contractor/Supervisor.
(x)(a) *Training Provider*: Hazcon, Inc.
Address: 5950 Sixth Ave. S., No. 200, Seattle, WA 98108, Contact: Mike Krause, Phone: (206) 763-7297.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xi)(a) *Training Provider*: Heavey Engineers, Inc.
Address: P.O. Box 832, Stevenson, WA 98648, Contact: Bernard Heavey, Phone: (509) 427-8936.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xii)(a) *Training Provider*: Long Services.
Address: 8025 10th Ave. S., P.O. Box C 81435, Seattle, WA 98018-4498, Contact: Michael Cole, Phone: (206) 763-8422.
(b) *Approved Course*:
Abatement Worker.
(xiii)(a) *Training Provider*: M & M Environmental, Inc.
Address: 3902 N. 34th St., Tacoma, WA 98407, Contact: Mike Reid, Phone: (206) 759-3443.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xiv)(a) *Training Provider*: NW Envirocon, Inc.
Address: 285 SW 41st, Renton, WA 98055, Contact: Cindy Rice, Phone: (206) 251-6033.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xv)(a) *Training Provider*: NW Envirocon, Inc.
Address: P.O. Box 169, Washougal, WA 98671, Contact: Jaxk Tenhonen, Phone: (206) 835-8576.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xvi)(a) *Training Provider*: NW Laborers—Employers Training Trust Fund.
Address: 27055 Ohio Ave., Kingston, WA 98346, Contact: Harold Avery, Phone: (206) 297-3035.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xvii)(a) *Training Provider*: NW Washington Painting, Drywall Joint Apprenticeship Committee.
Address: 6770 E. Marginal Way S., Seattle, WA 98108, Contact: Paul Norling, Phone: (206) 762-8332.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xviii)(a) *Training Provider*: Oregon, Southern Idaho, Wyoming, SW Washington Apprenticeship.
Address: Route 5, Box 325A, Corvallis, OR 97330, Contact: Larry Porter, Phone: (503) 745-5513.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
(xix)(a) *Training Provider*: Prezant Associates, Inc.
Address: 711 6th Ave. N., Suite 200, Seattle, WA 98109, Contact: Brad Prezant, Phone: (206) 281-8858.
(b) *Approved Courses*:
Abatement Worker.
Abatement Worker Annual Review.
Contractor/Supervisor.
(19)(a) *State*: Wisconsin.
State Agency: Department of Health & Social Services Division of Health, Address: 1414 East Washington, Ave., Rm. 112, Madison, WI 53703, Contact: Debbie Fresch, Phone: (608) 286-9382.
(b) *Approved Accreditation Program Disciplines*:
Abatement Worker (full from 11/10/89).
Contractor/Supervisor (full from 11/10/89).
Inspector (full from 11/10/89).
Inspector/Management Planner (full from 11/10/89).
Project Designer (full from 11/10/89).
EPA-Approved Training Courses
REGION I—Boston, MA
Regional Asbestos Coordinator: Joe DeCola, EPA, Region I, Air and Management Division (APT-2311), JFK Federal Building, Boston, MA 02203. (617) 565-3835, (FTS) 835-3835.
List of Approved Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region I training courses and contact points for each, are as follows:
(1)(a) *Training Provider*: Brooks Safe & Sound, Inc.
Address: 44 Codfish Ln., Weston, CT 06883, Contact: Keith Brooks, CSP, Phone: (203) 226-6970.
(b) *Approved Courses*:
Abatement Worker (contingent from 11/27/89).
Contractor/Supervisor [contingent from 11/27/89].
Inspector/Management Planner (contingent from 11/1/89).
(2)(a) *Training Provider*: Con-Test, Inc.
Address: P.O. Box 591, East Longmeadow, MA 01028, Contact: Brenda Bolduc, Phone: (413) 525-1198.
(b) *Approved Courses*:
Abatement Worker (contingent from 10/2/87).

- Abatement Worker Refresher Course (full from 11/22/88).
- Contractor/Supervisor (contingent from 10/2/87).
- Contractor/Supervisor Refresher Course (contingent from 10/2/87).
- Contractor/Supervisor Refresher Course (full from 12/21/88).
- Inspector/Management Planner (contingent from 10/2/87).
- Inspector/Management Planner Refresher Course (contingent from 10/2/87).
- Inspector/Management Planner Refresher Course (full from 2/1/89).
- (3)(a) *Training Provider:* Ecosystems, Inc.
Address: 266 Mian St., Suite 19, Medfield, MA 02052, Contact: Richard Doyle, Phone: (617) 239-8181.
(b) *Approved Course:*
- Contractor/Supervisor (contingent from 10/5/87).
- (4)(a) *Training Provider:* Enviromed Services, Inc.
Address: 25 Science Park, New Haven, CT 06511, Contact: Lawrence J. Cannon, Phone: (203) 786-5580.
(b) *Approved Courses:*
- Abatement Worker (contingent from 7/8/88).
- Abatement Worker Refresher Course (contingent from 6/19/89).
- Contractor/Supervisor (contingent from 2/23/89).
- Contractor/Supervisor Refresher Course (contingent from 6/19/89).
- Inspector/Management Planner (contingent from 1/30/89).
- (5)(a) *Training Provider:* Environmental Training Services Inc.
Address: 62-H Montvale Pl, Stoneham, MA 02180, Contact: Maryann Martin, Phone: (617) 279-0855.
(b) *Approved Course:*
- Abatement Worker (contingent from 4/22/88).
- (6)(a) *Training Provider:* Hygientics, Inc.
Address: 150 Causeway St., Boston, MA 02114, Contact: John W. Cowdery, Phone: (617) 723-4664.
(b) *Approved Course:*
- Inspector (contingent from 10/2/87).
- (7)(a) *Training Provider:* Industrial Health & Safety Consultants, Inc.
Address: 915 Bridgeport Ave., Shelton, CT 06484, Contact: Angela D. Rath, Phone: (203) 929-1131.
(b) *Approved Courses:*
- Abatement Worker (contingent from 5/15/89).
- Abatement Worker Refresher Course (contingent from 6/19/89).
- Contractor/Supervisor (contingent from 5/12/89).
- Contractor/Supervisor Refresher Course (contingent from 6/19/89).
- Inspector/Management Planner (contingent from 11/1/89).
- (8)(a) *Training Provider:* Institute for Environmental Education.
Address: 208 West Cummings Park, Woburn, MA 01801, Contact: Lisa Stammer, Phone: (617) 935-7370.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/28/88).
- Abatement Worker Refresher Course (full from 11/3/88).
- Contractor/Supervisor (full from 9/18/87).
- Contractor/Supervisor Refresher Course (full from 11/3/88).
- Inspector/Management Planner (contingent from 10/2/87).
- Inspector/Management Planner Refresher Course (contingent from 10/31/88).
- Project Designer (contingent from 2/28/89).
- Project Designer Refresher Course (contingent from 8/8/89).
- (9)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 33.
Address: 15 South Elm St., Wallingford, CT 06492, Contact: Joseph V. Soli, Phone: (203) 265-3547.
(b) *Approved Course:*
- Contractor/Supervisor (contingent from 7/27/88).
- (10)(a) *Training Provider:* Maine Labor Group on Health, Inc.
Address: P.O. Box V, Augusta, ME 04332-1042, Contact: Diana White, Phone: (207) 622-7823.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/11/87).
- Abatement Worker Refresher Course (contingent from 10/17/88).
- Contractor/Supervisor (contingent from 5/18/87).
- Contractor/Supervisor Refresher Course (full from 3/26/88).
- (11)(a) *Training Provider:* New England Laborers Training Trust Fund.
Address: Route 97 & Murdock Rd., P.O. Box 77, Pomfret Center, CT 06259, Contact: Gennaro Lepore, Phone: (203) 974-1455.
(b) *Approved Course:*
- Abatement Worker (contingent from 5/25/89).
- (12)(a) *Training Provider:* New England Laborers Training Trust Fund.
Address: 37 East St., Hopkinton, MA 01748-2699, Contact: Jim Merloni, Jr., Phone: (617) 435-6316.
(b) *Approved Courses:*
- Abatement Worker (contingent from 10/5/87).
- Abatement Worker Refresher Course (contingent from 5/20/88).
- (13)(a) *Training Provider:* Radiation Safety Associates, Inc.
Address: P.O. Box 107, 10 Pendleton Dr., Hebron, CT 06248, Contact: K. Paul Steinmeyer, Phone: (203) 228-0487.
(b) *Approved Courses:*
- Contractor/Supervisor (contingent from 5/16/89).
- Inspector/Management Planner (contingent from 5/16/89).
- (14)(a) *Training Provider:* Tufts University Asbestos Information Center.
Address: 474 Boston Ave., Medford, MA 02155, Contact: Anne Chabot, Phone: (617) 381-3531.
(b) *Approved Courses:*
- Contractor/Supervisor (interim from 9/1/85 to 5/31/87).
- Contractor/Supervisor (full from 6/1/87).
- Inspector/Management Planner (full from 11/16/87).
- EPA-Approved Training Courses*
REGION II—Edison, NJ
- Regional Asbestos Coordinator:* Arnold Freiburger, EPA, Region II, Woodbridge Ave., Raritan Depot, Bldg. 5, (MS-500), Edison, NJ 08837. (201) 321-6671, (FTS) 340-6671.
- List of Approved Courses:* The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region II training courses and contact points for each, are as follows:
- (1)(a) *Training Provider:* AAC Contracting, Inc.
Address: 243 Paul Rd., Rochester, NY 14624, Contact: Kevin T. Cannan, Phone: (716) 328-7010.
(b) *Approved Course:*
- Abatement Worker (contingent from 5/8/89).
- (2)(a) *Training Provider:* ATC Environmental, Inc.
Address: 104 East 25th St., New York, NY 10010, Contact: David V. Chambers, Phone: (212) 353-8280.
(b) *Approved Courses:*
- Abatement Worker (full from 11/7/88).
- Contractor/Supervisor (full from 11/7/88).
- Inspector/Management Planner (contingent from 6/5/88).

- Inspector/Management Planner (full from 3/6/89).
- (3)(a) *Training Provider:* Abatement Safety Training Institute.
Address: 323 West 39th St., New York, NY 10018, Contact: Rosemarie Bascianilli, Phone: (212) 629-8400.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/25/88).
Abatement Worker (full from 12/11/89).
Contractor/Supervisor (contingent from 10/25/88).
Inspector/Management Planner (contingent from 3/9/88).
Inspector/Management Planner (full from 3/21/88).
Inspector/Management Planner Refresher Course (contingent from 1/11/89).
Inspector/Management Planner Refresher Course (full from 1/30/89).
- (4)(a) *Training Provider:* Adelaide Environmental Health Associates.
Address: 61 Front St., Binghamton, NY 13905-4705, Contact: William S. Carter, Phone: (607) 722-6839.
- (b) *Approved Course:*
Abatement Worker (contingent from 11/14/88).
- (5)(a) *Training Provider:* Albany Environmental Technologies (A.E. Technologies).
Address: P.O. Box 1348, Schenectady, NY 12301, Contact: Kevin Pilgrim, Phone: (518) 374-4801.
- (b) *Approved Courses:*
Abatement Worker (contingent from 6/8/89).
Contractor/Supervisor (contingent from 6/8/89).
- (6)(a) *Training Provider:* Allegheny Council on Occupational Health.
Address: 100 East Second St., Suite 3, Jamestown, NY 14701, Contact: Linda Berlin, Phone: (716) 488-0720.
- (b) *Approved Course:*
Abatement Worker (contingent from 7/26/89).
- (7)(a) *Training Provider:* Allwash of Syracuse, Inc.
Address: P.O. Box 605, Syracuse, NY 13201, Contact: Ronald D. Roy, Phone: (315) 454-4476.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/16/87).
Abatement Worker (full from 12/7/88).
Abatement Worker Refresher Course (contingent from 12/15/88).
Contractor/Supervisor (contingent from 1/30/89).
Contractor/Supervisor Refresher Course (contingent from 10/17/89).
- (8)(a) *Training Provider:* Alternative Ways, Inc. Educational Services.
Address: Barclay Pavilion E, Suite 222, Route 70, Cherry Hill, NJ 08034.
Contact: Linda A. Pardi, Phone: (609) 795-1991.
- (b) *Approved Courses:*
Abatement Worker (contingent from 4/11/88).
Abatement Worker (full from 12/1/89).
Contractor/Supervisor (contingent from 4/11/88).
Contractor/Supervisor (full from 12/1/89).
Inspector/Management Planner (contingent from 4/22/88).
Inspector/Management Planner (full from 5/26/88).
Inspector/Management Planner Refresher Course (contingent from 1/18/89).
- (9)(a) *Training Provider:* Anderson International.
Address: RD 2, North Main Street Extension, Jamestown, NY 14701, Contact: Sally L. Gould, Phone: (716) 664-4028.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/29/88).
Contractor/Supervisor (contingent from 12/29/88).
- (10)(a) *Training Provider:* Applied Respiratory Technology.
Address: P.O. Box 1132, Peekskill, NY 10566, Contact: Paul M. Madigan, Phone: (914) 431-6421.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/11/88).
Abatement Worker (full from 11/28/88).
Abatement Worker Refresher Course (contingent from 10/19/88).
Contractor/Supervisor (contingent from 8/11/88).
Contractor/Supervisor (full from 11/28/88).
Contractor/Supervisor Refresher Course (contingent from 10/31/88).
- (11)(a) *Training Provider:* Asbestos Control Management, Inc.
Address: 126 South Third St., Olean, NY 14760, Contact: Clar D. Anderson, Phone: (716) 372-6393.
- (b) *Approved Course:*
Abatement Worker (contingent from 5/5/89).
- (12)(a) *Training Provider:* Asbestos Training Academy, Inc.
Address: 218 Cooper Center, Pennsauken, NJ 08109, Contact: S.J. Sieracki, Phone: (609) 488-9200.
- (b) *Approved Courses:*
Abatement Worker (contingent from 9/15/88).
Abatement Worker (full from 11/7/88).
Contractor/Supervisor (contingent from 9/15/88).
- Contractor/Supervisor (full from 11/7/88).
- Inspector (contingent from 4/27/89).
- (13)(a) *Training Provider:* Asteco, Inc.
Address: 140 Telegraph Rd., P.O. Box 179, Middleport, NY 14105, Contact: Davis Root, Phone: (716) 735-3894.
- (b) *Approved Courses:*
Abatement Worker (contingent from 3/1/88).
Abatement Worker (full from 4/13/88).
Abatement Worker Refresher Course (contingent from 12/20/88).
- (14)(a) *Training Provider:* Astoria Industries, Inc.
Address: 538 Stewart Ave., Brooklyn, NY 11222, Contact: Gary DiPaolo Jr., Phone: (718) 387-0011.
- (b) *Approved Courses:*
Abatement Worker (contingent from 3/8/88).
Abatement Worker (full from 4/18/88).
Contractor/Supervisor (contingent from 9/20/89).
Inspector (contingent from 1/18/89).
- (15)(a) *Training Provider:* BOCES-Albany-Scholarie-Schenectady Counties.
Address: 47 Cornell Rd., Latham, NY 12110, Contact: Charlene Vespi, Phone: (518) 786-3211.
- (b) *Approved Courses:*
Abatement Worker (contingent from 7/20/89).
Abatement Worker Refresher Course (contingent from 7/31/89).
Contractor/Supervisor (contingent from 7/20/89).
Inspector/Management Planner Refresher Course (contingent from 10/6/89).
- (16)(a) *Training Provider:* BOCES-Cayuga-Onondaga Counties.
Address: 234 South Street Rd., Auburn, NY 13021, Contact: Peter Pirnie, Phone: (315) 253-0361.
- (b) *Approved Course:*
Abatement Worker (contingent from 6/17/88).
- (17)(a) *Training Provider:* BOCES-Schuylers, Chemung, Tioga Counties.
Address: 431 Philo Road, Elmira, NY 14903, Contact: L. Eugene Ferro, Phone: (607) 739-3581.
- (b) *Approved Courses:*
Abatement Worker (contingent from 6/1/89).
Abatement Worker Refresher Course (contingent from 6/1/89).
Contractor/Supervisor (contingent from 6/1/89).
Contractor/Supervisor Refresher Course (contingent from 6/1/89).

- Inspector/Management Planner Refresher Course (contingent from 6/1/89).
(18)(a) *Training Provider:* Board of Cooperative Education Services of Rensselaer & Green Counties New York. Address: 1550 Schuurman Road, Castleton, NY 12033. Contact: Paul Bowler, Phone: (518) 732-7266.
(b) *Approved Course:*
- Inspector/Management Planner (contingent from 4/10/89).
(19)(a) *Training Provider:* Board of Cooperative Educational Services (BOCES) No. 3. Address: 507 Deer Park Rd., Dix Hills, NY 11746. Contact: Ciro Aiello, Phone: (516) 667-6000 X 300.
(b) *Approved Courses:*
- Abatement Worker (contingent from 2/6/89).
Abatement Worker (full from 11/27/89).
Contractor/Supervisor (contingent from 2/6/89).
(20)(a) *Training Provider:* Board of Cooperative Educational Services of Rensselaer, Columbia & Green Counties of New York. Address: Brookview Rd., P.O. Box 26, Brookview, NY 12026. Contact: Paul D. Bowler, Phone: (518) 732-7266.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/10/89).
Inspector/Management Planner (contingent from 4/10/89).
(21)(a) *Training Provider:* Board of Cooperative Educational Services-Suffolk County Boces 2, Adult Occup. & Continuing Ed. Address: 375 Locust Ave., Oakdale, NY 11769. Contact: Edward J. Milliken, Phone: (516) 563-2954.
(b) *Approved Courses:*
- Abatement Worker (contingent from 3/27/89).
Abatement Worker Refresher Course (contingent from 6/16/89).
Contractor/Supervisor (contingent from 3/27/89).
Contractor/Supervisor Refresher Course (contingent from 6/16/89).
(22)(a) *Training Provider:* Branch Services, Inc. Address: 1255 Lakeland Ave., Bohemia, NY 11716. Contact: Luis Sanders, Phone: (516) 563-7300.
(b) *Approved Course:*
- Abatement Worker (contingent from 6/1/89).
(23)(a) *Training Provider:* Buffalo Laborers Training Fund. Address: 481 Franklin St., Buffalo, NY 14202. Contact: Victor J. Sansanese, Phone: (716) 884-7157.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 6/30/88).
Abatement Worker Refresher Course (contingent from 8/8/89).
(24)(a) *Training Provider:* Building Laborers Local Union No. 17. Address: P.O. Box 252, Vails Gate, NY 12584. Contact: Victor P. Mandia, Phone: (914) 562-1121.
(b) *Approved Course:*
- Abatement Worker (contingent from 10/31/88).
(25)(a) *Training Provider:* Calibrations, Inc. Address: 802 Watervliet—Shaker Rd., Latham, NY 12110. Contact: James Percent, Phone: (518) 786-1865.
(b) *Approved Courses:*
- Abatement Worker (contingent from 9/28/88).
Abatement Worker (full from 12/5/88).
Abatement Worker Refresher Course (contingent from 3/6/89).
Contractor/Supervisor (contingent from 9/28/88).
Contractor/Supervisor (full from 12/5/88).
Contractor/Supervisor Refresher Course (contingent from 3/6/89).
Inspector/Management Planner (contingent from 9/28/88).
Inspector/Management Planner Refresher Course (contingent from 3/6/89).
Project Designer (full from 5/23/88).
Project Designer Refresher Course (contingent from 3/6/89).
(26)(a) *Training Provider:* Comprehensive Analytical Group. Address: 147 Midler Park Dr., Syracuse, NY 13206. Contact: David Serino, Phone: (315) 432-1332.
(b) *Approved Courses:*
- Abatement Worker (contingent from 3/9/89).
Abatement Worker Refresher Course (contingent from 4/25/89).
Contractor/Supervisor (contingent from 3/29/89).
Contractor/Supervisor Refresher Course (contingent from 5/18/89).
Inspector (contingent from 10/27/89).
(27)(a) *Training Provider:* Ecology & Environment, Inc. Address: Buffalo Corporate Center, 368 Pleasantview Dr., Lancaster, NY 14086. Contact: Thomas G. Siener, Phone: (716) 684-8060.
(b) *Approved Course:*
- Inspector/Management Planner Refresher Course (contingent from 4/7/89).
(28)(a) *Training Provider:* Education & Training Fund Laborers' Local No. 91. Address: 2556 Seneca Ave., Niagra Falls, NY 14305. Contact: Joel Cicero, Phone: (716) 297-6001.
(b) *Approved Courses:*
- Abatement Worker (full from 7/27/87).
Abatement Worker Refresher Course (contingent from 10/20/88).
Abatement Worker Refresher Course (full from 10/22/88).
(29)(a) *Training Provider:* Edward O. Watts & Associates. Address: 1331 North Forest Rd., Suite 340, Buffalo, NY 14221. Contact: Edward O. Watts, Phone: (716) 688-4827.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/4/89).
Abatement Worker Refresher Course (contingent from 3/3/89).
Contractor/Supervisor (contingent from 7/12/89).
Contractor/Supervisor Refresher Course (contingent from 3/3/89).
(30)(a) *Training Provider:* General Bldg. Laborer's Local Union No. 66. Address: 288 Middle Island Rd., Medford, NY 11763. Contact: Michael La Barbara, Phone: (516) 249-1110.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/10/89).
Abatement Worker (full from 12/1/89).
(31)(a) *Training Provider:* Hazardous Waste Management Corp. Training Center of Buffalo, New York. Address: 3816 Union Rd., Buffalo, NY 14225-5301. Contact: Donald Larder, Phone: (716) 634-3000.
(b) *Approved Courses:*
- Abatement Worker (contingent from 10/31/88).
Contractor/Supervisor (contingent from 10/31/88).
(32)(a) *Training Provider:* Hudson Asbestos Training Institute. Address: 604 Manhattan Ave., Brooklyn, NY 11222. Contact: Henry Kawiorski, Phone: (718) 383-2656.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/30/89).
Abatement Worker (full from 3/13/89).
Contractor/Supervisor (contingent from 1/30/89).
(33)(a) *Training Provider:* Hunter College Asbestos Training Center/United Brotherhood of Carpenters & Joiners of America. Address: 425 East 25th St., New York, NY 10010. Contact: Jack Caravanos, Phone: (212) 481-7569.
(b) *Approved Courses:*

Abatement Worker (full from 7/1/88).
Abatement Worker Refresher Course
(contingent from 6/20/89).
Contractor/Supervisor (full from 7/1/
88).

Contractor/Supervisor Refresher Course
(contingent from 6/20/89).
Inspector/Management Planner
(contingent from 12/21/89).

(34)(a) *Training Provider:* Hygeia
Research & Training.
Address: P.O. Box 4506, Utica, NY 13501,
Contact: Richard A. Gigliotti, Phone:
(315) 732-8567.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/
9/88).

Abatement Worker (full from 5/6/88).
Abatement Worker Refresher Course
(contingent from 12/12/88).

Contractor/Supervisor (contingent from
1/26/89).

Contractor/Supervisor Refresher Course
(contingent from 12/20/88).

(35)(a) *Training Provider:* Institute of
Asbestos Awareness.

Address: 2 Heitz Pl., Suite 1000,
Hicksville, NY 11801, Contact: Henry
R. Clegg, Phone: (516) 937-1600.

(b) *Approved Courses:*

Abatement Worker (full from 10/24/88).
Abatement Worker Refresher Course
(contingent from 3/8/89).

Contractor/Supervisor (full from 10/24/
88).

Contractor/Supervisor Refresher Course
(contingent from 3/8/89).

Inspector/Management Planner
(contingent from 9/28/88).

Inspector/Management Planner (full
from 3/2/89).

Inspector/Management Planner
Refresher Course (contingent from 3/
8/89).

Project Designer (contingent from 9/26/
89).

(36)(a) *Training Provider:* Institute of
Asbestos Technology Corp.

Address: 5900 Butternut Dr., East
Syracuse, NY 13057, Contact: Charles
Kirch, Phone: (315) 437-1307.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/
18/88).

Abatement Worker (full from 6/27/88).
Abatement Worker Refresher Course
(contingent from 12/20/88).

Contractor/Supervisor (contingent from
4/7/89).

Contractor/Supervisor Refresher Course
(contingent from 6/8/89).

Inspector/Management Planner
(contingent from 10/19/89).

Inspector/Management Planner
Refresher Course (contingent from 10/
27/89).

(37)(a) *Training Provider:* Kaselaan &
D'Angelo Associates, Inc.

Address: 220 Fifth Ave., New York, NY
10001, Contact: Lance Fredericks,
Phone: (212) 216-6340.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/
15/89).

Contractor/Supervisor (contingent from
3/27/89).

Inspector/Management Planner
(contingent from 2/12/88).

Inspector/Management Planner (full
from 3/7/88).

Inspector/Management Planner
Refresher Course (full from 4/27/89).

(38)(a) *Training Provider:* Korean
Asbestos Training Center.

Address: 46-12 Queens Blvd, Long
Island City, NY 11104, Contact:
Tchang S. Bahrk, Phone: (718) 361-
6464.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/
11/89).

Abatement Worker Refresher Course
(contingent from 5/22/89).

Contractor/Supervisor (contingent from
5/11/89).

Contractor/Supervisor Refresher Course
(contingent from 5/22/89).

(39)(a) *Training Provider:* Laborers
Local Union No. 214 of Oswego New
York & Vicinity Training & Education
Fund.

Address: 23 Mitchell St., Oswego, NY
13126, Contact: John T. Shannon,
Phone: (315) 343-8553.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/
1/88).

Abatement Worker (full from 1/23/89).
Abatement Worker Refresher Course
(contingent from 2/15/89).

Contractor/Supervisor (contingent from
10/7/89).

(40)(a) *Training Provider:* Lozier
Architects/Engineers.

Address: 600 Perinton Hills, Fairport, NY
14450, Contact: Dyke Coyne, Phone:
(716) 223-7610.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/
12/89).

Abatement Worker Refresher Course
(contingent from 7/12/89).

(41)(a) *Training Provider:* McDonnell-
Gamble Environmental Services, Inc.

Address: 444 Park Ave. S, 5th Fl., Suite
503, New York, NY 10016, Contact:
Yelena Goodman, Phone: (212) 545-
1122.

(b) *Approved Courses:*

Abatement Worker (contingent from 8/
15/88).

Abatement Worker (full from 12/5/88).
Abatement Worker Refresher Course
(contingent from 8/25/89).

Contractor/Supervisor (contingent from
10/18/88).

Contractor/Supervisor (full from 12/5/
88).

(42)(a) *Training Provider:* Mid-
Atlantic Asbestos Training Center
UMDNJ Robert Wood Johnson Medical
School.

Address: 675 Hoes Ln., Piscataway, NJ
08854-5635, Contact: Lee Laustsen,
Phone: (201) 463-4500.

(b) *Approved Courses:*

Abatement Worker (full from 7/28/86).

Abatement Worker Refresher Course
(contingent from 10/17/89).

Contractor/Supervisor (full from 7/28/
86).

Contractor/Supervisor Refresher Course
(contingent from 10/17/89).

Inspector/Management Planner (full
from 11/16/87).

Inspector/Management Planner
Refresher Course (full from 11/18/88).

Project Designer (contingent from 11/20/
89).

Project Designer Refresher Course
(contingent from 10/17/89).

(43)(a) *Training Provider:* Monroe
Community College of Rochester, New
York.

Address: P.O. Box 9720, Rochester, NY
14623-0720, Contact: Dusty Swanger,
Phone: (716) 272-9839.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/
7/88).

Abatement Worker (full from 4/26/89).

(44)(a) *Training Provider:* National
Asbestos Training Institute (NATI).

Address: 1776 Bloomsbury Ave., Ocean,
NJ 07712, Contact: Doris L. Adler,
Phone: (201) 918-0610.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/
3/89).

Abatement Worker (full from 12/1/89).

Abatement Worker Refresher Course
(contingent from 10/20/89).

Contractor/Supervisor (contingent from
11/3/89).

Contractor/Supervisor (full from 12/1/
89).

Contractor/Supervisor Refresher Course
(contingent from 10/20/89).

Inspector/Management Planner
(contingent from 6/13/88).

Inspector/Management Planner (full
from 4/17/89).

Inspector/Management Planner
Refresher Course (contingent from 5/
25/89).

- Project Designer (contingent from 11/3/89).
- Project Designer Refresher Course (contingent from 10/20/89).
- (45)(a) *Training Provider:* National Institute on Abatement Science & Technology (NIAST).
Address: 114 West State St., P.O. Box 1780, Trenton, NJ 08607-1780, Contact: Glenn W. Phillips, Phone: (800) 422-2836.
- (b) *Approved Courses:*
- Inspector (contingent from 3/8/88).
Inspector (full from 4/11/88).
- (46)(a) *Training Provider:* New York University School of Continuing Education.
Address: 11 West 42nd St., New York, NY 10036, Contact: Charles Schwartz, Phone: (212) 790-1647.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 5/18/89).
- Abatement Worker (full from 11/17/89).
- Abatement Worker Refresher Course (contingent from 6/8/89).
- Contractor/Supervisor (contingent from 5/18/89).
- Contractor/Supervisor (full from 11/17/89).
- Contractor/Supervisor Refresher Course (contingent from 6/8/89).
- Inspector/Management Planner (contingent from 5/18/89).
- Inspector/Management Planner (full from 12/8/89).
- Inspector/Management Planner Refresher Course (contingent from 6/8/89).
- Project Designer (contingent from 5/18/89).
- Project Designer Refresher Course (contingent from 6/8/89).
- (47)(a) *Training Provider:* Niagara County Community College.
Address: Corporate Training Center, P.O. Box 70, Lockport, NY 14095, Contact: Eugene Zinni, Phone: (716) 433-1856.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 1/5/88).
- Abatement Worker (full from 1/25/88).
- Abatement Worker Refresher Course (contingent from 1/23/89).
- Contractor/Supervisor (contingent from 1/5/88).
- Contractor/Supervisor (full from 2/19/88).
- Contractor/Supervisor Refresher Course (contingent from 2/8/89).
- Inspector/Management Planner (contingent from 5/18/88).
- Inspector/Management Planner (full from 12/5/88).
- Inspector/Management Planner Refresher Course (contingent from 3/6/89).
- (48)(a) *Training Provider:* Northeastern Analytical Corporation.
Address: 4 Stow Rd., Marlton, NJ 08053, Contact: Robert Howlitt, Phone: (609) 985-8000.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 8/17/89).
- Abatement Worker Refresher Course (contingent from 8/17/89).
- Contractor/Supervisor (contingent from 8/17/89).
- Contractor/Supervisor Refresher Course (contingent from 8/17/89).
- (49)(a) *Training Provider:* O'Brien & Gere.
Address: 5000 Brettonfield Pkwy., P.O. Box 4873, Syracuse, NY 13221, Contact: Michael P. Quirk, Phone: (315) 437-6100.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 1/19/89).
- Abatement Worker (full from 4/10/89).
- Abatement Worker Refresher Course (contingent from 9/21/89).
- Contractor/Supervisor (contingent from 1/19/89).
- Contractor/Supervisor (full from 4/10/89).
- Contractor/Supervisor Refresher Course (contingent from 9/21/89).
- Inspector/Management Planner (full from 10/27/88).
- Inspector/Management Planner Refresher Course (contingent from 2/24/89).
- (50)(a) *Training Provider:* Orange/Ulster BOCES Risk Management Dept.
Address: RD 2 Gibson Rd., Goshen, NY 10924, Contact: Arthur J. Lange, Phone: (914) 294-5431.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 3/2/89).
- Contractor/Supervisor (contingent from 3/2/89).
- (51)(a) *Training Provider:* P.A. Environmental Corp.
Address: 4240-24F Hutchinson River Pkwy. E, Bronx, NY 10475, Contact: Pichai Arjarasumpun, Phone: (212) 379-6716.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 5/31/89).
- Abatement Worker Refresher Course (contingent from 5/31/89).
- Contractor/Supervisor (contingent from 5/31/89).
- Contractor/Supervisor Refresher Course (contingent from 5/31/89).
- (52)(a) *Training Provider:* Paradigm Environmental Services, Inc.
Address: 961 Lyell Ave., Building 2, Suite 8, Rochester, NY 14606, Contact: Marsha R. Cummings, Phone: (716) 647-2530.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 7/19/89).
- Abatement Worker Refresher Course (contingent from 10/3/89).
- Contractor/Supervisor (contingent from 12/28/89).
- Contractor/Supervisor Refresher Course (contingent from 10/6/89).
- (53)(a) *Training Provider:* Puerto Rico Environmental Consultants and Training Center, Inc.
Address: Cond. Banco Cooperativo Plaza Office, 302-B, Hato Rey, PR 00917, Contact: Roberto Berber, Phone: (809) 250-6052.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 11/1/89).
- Abatement Worker Refresher Course (contingent from 11/20/89).
- Contractor/Supervisor (contingent from 11/1/89).
- Contractor/Supervisor Refresher Course (contingent from 11/20/89).
- Inspector/Management Planner (contingent from 11/1/89).
- Inspector/Management Planner Refresher Course (contingent from 11/20/89).
- (54)(a) *Training Provider:* Princeton Testing Laboratory, Inc.
Address: 3490 US Route 1, Princeton Service Center, Princeton, NJ 08543, Contact: Charles Schneekloth, Phone: (609) 452-9050.
- (b) *Approved Course:*
- Inspector/Management Planner (contingent from 3/21/88).
- (55)(a) *Training Provider:* R. J. Fletcher, Inc.
Address: P.O. Box 5021, Utica, NY 13505, Contact: Robert J. Fletcher, Phone: (315) 724-0141.
- (b) *Approved Courses:*
- Abatement Worker Refresher Course (contingent from 2/24/89).
- Inspector/Management Planner Refresher Course (contingent from 2/24/89).
- (56)(a) *Training Provider:* SUNY College of Technology at Farmingdale.
Address: Biology Department, Nathan Hale Hall, Farmingdale, NY 11735, Contact: Charles Erlanger, Phone: (516) 420-2000.
- (b) *Approved Courses:*
- Inspector/Management Planner (contingent from 4/24/89).
- Inspector/Management Planner Refresher Course (contingent from 4/24/89).

(57)(a) *Training Provider:* Safe Air Environmental Group, Inc.

Address: P.O. Box 1767, Williamsville, NY 14231, Contact: L.J. Beenau or Cronan Long, Phone: (716) 632-0707.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/8/88).

Abatement Worker (full from 4/4/88).

Abatement Worker Refresher Course (contingent from 3/2/89).

Contractor/Supervisor (contingent from 3/8/88).

Contractor/Supervisor (full from 4/4/88).

Contractor/Supervisor Refresher Course (contingent from 3/2/89).

(58)(a) *Training Provider:* Safety Training, Inc.

Address: 114 Durst Pl., Yonkers, NY 10704, Contact: Nelson Helu, Phone: (914) 963-6831.

(b) *Approved Course:*

Abatement Worker (contingent from 4/25/88).

(59)(a) *Training Provider:* State University of New York at Buffalo.

Address: Toxicology Research Center, 111 Farber Hall, Buffalo, NY 14214, Contact: Paul J. Kostyniak, Phone: (716) 831-2125.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/19/89).

Abatement Worker Refresher Course (contingent from 2/2/89).

Contractor/Supervisor (contingent from 10/19/89).

Contractor/Supervisor Refresher Course (contingent from 2/2/89).

Inspector/Management Planner (contingent from 1/25/89).

Inspector/Management Planner Refresher Course (contingent from 2/2/89).

(60)(a) *Training Provider:* State of New Jersey Dept. of Health.

Address: CN 360, Trenton, NJ 08625-0360, Contact: James A. Brownlee, Phone: (609) 984-2193.

(b) *Approved Course:*

Inspector/Management Planner Refresher Course (contingent from 3/28/89).

(61)(a) *Training Provider:* Testwell Craig Laboratories of Albany, Inc.

Address: 518 Clinton Ave., Albany, NY 12206, Contact: George W. Stowell, Phone: (518) 436-4114.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/15/88).

Abatement Worker (full from 1/24/89).

Abatement Worker Refresher Course (contingent from 10/17/89).

Contractor/Supervisor (contingent from 6/20/89).

(62)(a) *Training Provider:* The University of Medicine & Dentistry of New Jersey.

Address: Brookwood Plaza II, 45 Knightsbridge Rd., Piscataway, NJ 08854, Contact: Lee Lansten, Phone: (201) 463-5062.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/17/89).

Abatement Worker Refresher Course (contingent from 10/17/89).

Contractor/Supervisor (contingent from 10/17/89).

Contractor/Supervisor Refresher Course (contingent from 10/17/89).

Project Designer Refresher Course (contingent from 10/17/89).

(63)(a) *Training Provider:* Tri-Cities Laborers Training Program.

Address: 5 Lombard St., Schenectady, NY 12304, Contact: Joseph A. Zappone, Phone: (518) 370-3463.

(b) *Approved Courses:*

Abatement Worker (full from 3/21/88).

Abatement Worker Refresher Course (contingent from 10/26/88).

Abatement Worker Refresher Course (full from 2/2/89).

(64)(a) *Training Provider:* Union Occupational Health Center.

Address: 450 Grider St., Buffalo, NY 14215, Contact: Garath L. Tubbs, Phone: (716) 894-9366.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/31/88).

Contractor/Supervisor (contingent from 10/17/89).

(65)(a) *Training Provider:* Utilicom Corp.

Address: 7 Tobey Village Office Park, Pittsford, NY 14534, Contact: Dennis J. Money, Phone: (716) 381-8710.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/20/88).

Abatement Worker (full from 10/31/88).

Abatement Worker Refresher Course (contingent from 4/21/89).

(66)(a) *Training Provider:* Warren Mae Associates.

Address: RD 3, Box 390, Endicott, NY 13760, Contact: Janine C. Rogelstad, Phone: (607) 754-8386.

(b) *Approved Courses:*

Abatement Worker (contingent from 8/11/88).

Abatement Worker (full from 1/4/89).

Abatement Worker Refresher Course (contingent from 3/2/89).

(67)(a) *Training Provider:* Western New York Council on Occupational Safety & Health (WNYCOSH).

Address: 450 Grider St., Buffalo, NY 14215, Contact: Jeanne Reilly, Phone: (716) 897-2110.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/28/87).

Abatement Worker (full from 1/24/88).

(68)(a) *Training Provider:* Wetlands & Environmental Technologies, Inc.

Address: 88 Willow Ave., Hackensack, NJ 07601, Contact: John J. Borris, Phone: (201) 361-4799.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/8/89).

Inspector/Management Planner (contingent from 11/8/89).

Project Designer (contingent from 11/8/89).

(69)(a) *Training Provider:* White Lung Association—NY.

Address: 12 Warren St., 4th Fl., New York, NY 10007, Contact: Daniel Manasia, Phone: (212) 619-2270.

(b) *Approved Course:*

Inspector (contingent from 2/23/89).

(70)(a) *Training Provider:* White Lung Association of New Jersey.

Address: 901 Broad St., Newark, NJ 07102, Contact: Antonio Legorreta, Phone: (201) 824-2623.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/19/89).

Contractor/Supervisor (contingent from 6/19/89).

Inspector/Management Planner (contingent from 9/19/89).

(71)(a) *Training Provider:* Zola Sookias Associates Environmental Consultants.

Address: 545 Eighth Ave., Suite 401, New York, NY 10018, Contact: Zola Sookias, Phone: (212) 330-0914.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/6/89).

Contractor/Supervisor (contingent from 10/6/89).

EPA-Approved Training Courses

REGION III—Philadelphia, PA

Regional Asbestos Coordinator: Carole Dougherty, EPA, Region III (3HW-42), 841 Chestnut Bldg., Philadelphia, PA 19107. (215) 597-3160, (FTS) 597-3160.

List of Approved Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not

reflect a prioritization. Approvals for Region III training courses and contact points for each, are as follows:

(1)(a) *Training Provider:* A & S Training School, Inc.

Address: 99 South Cameron St., Harrisburg, PA 17101, Contact: Anna Marie Sossong, Phone: (717) 257-1360.

(b) *Approved Courses:*

Abatement Worker (full from 5/20/85).
Contractor/Supervisor (full from 5/20/85).

(2)(a) *Training Provider:* ASBESTOS Removal Co.

Address: 521 D Pulaski Hwy., Joppa, MD 21085, Contact: Nick Thrappas, Phone: (301) 679-6062.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/11/89).

Contractor/Supervisor (contingent from 12/11/89).

(3)(a) *Training Provider:* Advance Analytical Laboratories Inc.

Address: 30th & North Church Sts., Hazleton, PA 18201, Contact: Steven L. Hahn, Phone: (717) 455-5115.

(b) *Approved Courses:*

Abatement Worker (full from 9/8/88).
Abatement Worker Refresher Course (contingent from 12/29/88).
Contractor/Supervisor (contingent from 8/11/88).

Contractor/Supervisor Refresher Course (contingent from 12/29/88).

(4)(a) *Training Provider:* Aerosol Monitoring & Analysis, Inc.

Address: 1341 Ashton Rd., Suite A, Hanover, MD 21076, Contact: D.R. Twilley, Phone: (301) 684-3327.

(b) *Approved Courses:*

Abatement Worker (full from 11/27/87).
Abatement Worker Refresher Course (contingent from 4/20/89).

Abatement Worker Refresher Course (full from 9/1/89).

Contractor/Supervisor (full from 11/27/87).

Contractor/Supervisor Refresher Course (contingent from 4/20/89).

Contractor/Supervisor Refresher Course (full from 9/1/89).

Inspector/Management Planner (contingent from 3/1/88).

Inspector/Management Planner (full from 3/31/88).

(5)(a) *Training Provider:* Alcam, Inc.

Address: 113 Poplar St., Box 213, Ambler, PA 19002, Contact: Albert Camburn, Phone: (215) 367-2791.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/26/89).

Contractor/Supervisor (contingent from 1/26/89).

(6)(a) *Training Provider:* Alice Hamilton Center for Occupational Health Center.

Address: 410 7th St., SE, 2nd Fl., Washington, DC 20003, Contact: Brian Christopher, Phone: (202) 543-0005.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/12/87).

Abatement Worker (full from 1/16/88).
Abatement Worker Refresher Course (contingent from 12/29/88).

Contractor/Supervisor (full from 1/16/88).

Contractor/Supervisor Refresher Course (contingent from 12/29/88).

Inspector/Management Planner (contingent from 3/9/88).

Inspector/Management Planner (full from 6/20/88).

Inspector/Management Planner Refresher Course (contingent from 3/2/89).

(7)(a) *Training Provider:* American Asbestos Training Institute, Inc.

Address: 2133 Arch St., Philadelphia, PA 19103, Contact: Linda McNeil, Phone: (215) 988-9710.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/16/89).

Contractor/Supervisor (contingent from 5/16/89).

(8)(a) *Training Provider:* American Monitoring & Engineering Services, Inc.

Address: 200 High Tower Boulevard, Suite 205, Pittsburgh, PA 15205, Contact: David J. Drummond, Phone: (412) 788-8300.

(b) *Approved Course:*

Inspector/Management Planner (contingent from 7/21/89).

(9)(a) *Training Provider:* Apex Environmental, Inc.

Address: 7652 Standish Pl., Rockville, MD 20855, Contact: Dorothy Washlick, Phone: (301) 217-9200.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/27/89).

Contractor/Supervisor (contingent from 7/27/89).

(10)(a) *Training Provider:* Asbestos Abatement Council, AWCI.

Address: 1600 Cameron St., Alexandria, VA 22314-2705, Contact: Gene Fisher, Phone: (703) 684-2924.

(b) *Approved Courses:*

Abatement Worker (full from 6/17/87).

Contractor/Supervisor (full from 6/17/87).

(11)(a) *Training Provider:* Asbestos Analytical Association, Inc.

Address: 3208-B George Washington Hwy., Portsmouth, VA 23704, Contact:

Carol A. Holden, Phone: (804) 397-0695.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/7/88).

Contractor/Supervisor (contingent from 10/7/88).

(12)(a) *Training Provider:* Asbestos Environmental Services of Maryland, Inc.

Address: P.O. Box 28, Timonium, MD 21093, Contact: David George, Phone: (301) 584-1490.

(b) *Approved Courses:*

Abatement Worker (contingent from 4/6/89).

Contractor/Supervisor (contingent from 4/6/89).

(13)(a) *Training Provider:* Asbestos Removal Co.

Address: 521 D Pulaski Hwy., Joppa, MD 21085, Contact: Nick Thrappas, Phone: (301) 679-6021.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/11/89).

Contractor/Supervisor (contingent from 12/11/89).

(14)(a) *Training Provider:* Asbestos Training Center.

Address: 628 Spring St., Fairmont, WV 26554, Contact: Theodore Jackson, Phone: (304) 363-3803.

(b) *Approved Course:*

Abatement Worker (contingent from 12/11/89).

(15)(a) *Training Provider:* Asbestos Workers Local Union No. 24.

Address: 6713 Ammendale Rd., Beltsville, MD 20705, Contact: Thomas Haun, Phone: (301) 937-7636.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/15/88).

Abatement Worker Refresher Course (contingent from 12/1/88).

Contractor/Supervisor (contingent from 12/1/88).

Contractor/Supervisor Refresher Course (contingent from 12/1/88).

(16)(a) *Training Provider:* Associated Thermal Services.

Address: 121 Edgewood Ave., Pittsburgh, PA 15218, Contact: Renee Yuttaze, Phone: (412) 247-4003.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/11/89).

Contractor/Supervisor (contingent from 12/11/89).

Inspector/Management Planner (contingent from 12/11/89).

- Project Designer (contingent from 12/11/89).
(17)(a) *Training Provider:* Atlantic Environmental Resources Inc.
Address: 10111-B-Bacon Dr., Beltsville, MD 20705, Contact: John E Kee, Phone: (301) 595-1014.
(b) *Approved Courses:*
- Abatement Worker (contingent from 12/11/89).
Contractor/Supervisor (contingent from 12/11/89).
(18)(a) *Training Provider:* BARCO Enterprises, Inc.
Address: 2439 North Charles St., Baltimore, MD 21218, Contact: Bart Harrison, Phone: (301) 889-7770.
(b) *Approved Courses:*
- Abatement Worker (contingent from 12/11/89).
Contractor/Supervisor (contingent from 12/11/89).
(19)(a) *Training Provider:* Biospherics, Inc.
Address: 12051 Indian Creek Ct., Beltsville, MD 20705, Contact: Marian Meiselman, Phone: (301) 369-3900.
(b) *Approved Courses:*
- Abatement Worker (full from 10/1/87).
Abatement Worker Refresher Course (contingent from 8/12/88).
Abatement Worker Refresher Course (full from 10/31/88).
Contractor/Supervisor (full from 10/1/87).
Contractor/Supervisor Refresher Course (contingent from 8/12/88).
Contractor/Supervisor Refresher Course (full from 10/31/88).
Inspector/Management Planner (contingent from 5/20/88).
Inspector/Management Planner (full from 8/15/88).
Inspector/Management Planner Refresher Course (contingent from 2/23/89).
Inspector/Management Planner Refresher Course (full from 3/20/89).
(20)(a) *Training Provider:* Briggs Associates, Inc. Maryland.
Address: 8300 Guilford Rd., Suite E, Columbia, MD 21046, Contact: J. Ross Voorhees, Phone: (301) 381-4434.
(b) *Approved Course:*
- Abatement Worker (contingent from 1/30/89).
(21)(a) *Training Provider:* Brujos Scientific, Inc.
Address: 505 Drury Ln., Baltimore, MD 21229, Contact: Robert Olcerst, Phone: (301) 566-0859.
(b) *Approved Courses:*
- Abatement Worker (full from 11/21/88).
Contractor/Supervisor (contingent from 9/29/88).
(22)(a) *Training Provider:* Business Industrial Safety Supplies.
Address: 118 East Patapsco Ave., Baltimore, MD 21225, Contact: Ronald Mace, Phone: (301) 354-2477.
(b) *Approved Courses:*
- Abatement Worker (contingent from 11/20/89).
Contractor/Supervisor (contingent from 11/20/89).
(23)(a) *Training Provider:* Camtech, Inc.
Address: 4550 McKnight Rd., Suite 202, Pittsburgh, PA 15237, Contact: Leslie Connors, Phone: (412) 931-1210.
(b) *Approved Course:*
- Inspector/Management Planner (contingent from 10/13/89).
(24)(a) *Training Provider:* Carpenters Joint Apprenticeship Committee of Western Pennsylvania.
Address: 495 Mansfield Ave., Pittsburgh, PA 15205, Contact: William Shehab, Phone: (412) 922-6200.
(b) *Approved Courses:*
- Abatement Worker (contingent from 12/1/88).
Abatement Worker (full from 10/6/89).
Abatement Worker Refresher Course (contingent from 10/20/89).
Contractor/Supervisor (contingent from 11/27/89).
Contractor/Supervisor (full from 11/27/89).
Contractor/Supervisor Refresher Course (full from 11/27/89).
(25)(a) *Training Provider:* Center for Environmental & Occupational Training, Inc.
Address: 814 East Pittsburgh Plaza, Pittsburgh, PA 15112, Contact: David Ginsburg, Phone: (412) 823-1002.
(b) *Approved Courses:*
- Abatement Worker (contingent from 9/15/88).
Abatement Worker (full from 12/8/88).
Abatement Worker Refresher Course (full from 1/19/89).
Contractor/Supervisor (contingent from 9/15/88).
Contractor/Supervisor (full from 12/8/88).
Contractor/Supervisor Refresher Course (full from 1/19/89).
Inspector/Management Planner (contingent from 3/1/89).
Inspector/Management Planner Refresher Course (contingent from 3/1/89).
Project Designer (contingent from 6/29/89).
(26)(a) *Training Provider:* Center for Hazardous Materials Research.
Address: University of Pittsburgh Applied, Research Center, 320 William Pitt Way, Pittsburgh, PA 15238, Contact: Steven T. Ostheim, Phone: (412) 826-5320.
(b) *Approved Courses:*
- Abatement Worker (contingent from 11/28/88).
Contractor/Supervisor (contingent from 11/28/88).
(27)(a) *Training Provider:* Charles County Community College.
Address: Mitchell Rd., Box 910, LaPlata, MD 20646-0910, Contact: Jake Bair, Phone: (301) 934-2251.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/26/89).
Abatement Worker Refresher Course (contingent from 4/20/89).
Contractor/Supervisor (contingent from 1/26/89).
Contractor/Supervisor Refresher Course (contingent from 4/20/89).
(28)(a) *Training Provider:* Commonwealth of Pennsylvania Dept. of Public Welfare.
Address: P.O. Box 2675, Harrisburg, PA 17120-0012, Contact: Gerald A. Donatucci, Phone: (717) 783-9543.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/3/88).
Abatement Worker (full from 11/15/88).
Abatement Worker Refresher Course (contingent from 8/17/89).
(29)(a) *Training Provider:* Delaware Technical & Community College Terry Campus/Stanton Campus.
Address: 1798 North DuPont Pkwy., P.O. Box 897, Dover, DE 19903, Contact: David Stanley, Phone: (302) 454-3900.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/20/88).
Abatement Worker Refresher Course (contingent from 3/1/88).
Contractor/Supervisor (contingent from 4/20/88).
Contractor/Supervisor Refresher Course (contingent from 3/1/88).
(30)(a) *Training Provider:* Dept. of the Environment, State of Maryland.
Address: 2500 Broening Hwy., Baltimore, MD 21224, Contact: Barbara Conrad, Phone: (301) 631-3847.
(b) *Approved Course:*
- Inspector/Management Planner (contingent from 4/14/89).
(31)(a) *Training Provider:* District Council of Eastern Pennsylvania.
Address: 2163 Berry Hill St., Harrisburg, PA 17104, Contact: Gerald D. Tamarantz, Phone: (717) 564-2707.
(b) *Approved Courses:*

- Abatement Worker (full from 1/30/89).
Abatement Worker Refresher Course (contingent from 8/17/89).
(32)(a) *Training Provider:* Drexel University, Office of Continuing Professional Education.
Address: 32nd & Chestnut Sts., Philadelphia, PA 19104, Contact: Robert Ross, Phone: (215) 895-2156.
(b) *Approved Courses:*
- Abatement Worker (interim from 9/1/86 to 11/11/87).
Abatement Worker (full from 11/12/87).
Abatement Worker Refresher Course (contingent from 12/29/88).
Contractor/Supervisor (interim from 9/1/86 to 11/11/87).
Contractor/Supervisor (full from 11/12/87).
Contractor/Supervisor Refresher Course (contingent from 12/29/88).
Inspector/Management Planner (contingent from 3/8/88).
Inspector/Management Planner (full from 3/14/88).
Inspector/Management Planner Refresher Course (contingent from 12/29/88).
Project Designer (contingent from 11/27/89).
(33)(a) *Training Provider:* Dynamac Corp.
Address: 11140 Rockville Pike, Rockville, MD 20852, Contact: Richard A. De Blasio, Phone: (301) 468-2500.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/6/89).
Contractor/Supervisor (contingent from 3/2/89).
Inspector/Management Planner (contingent from 9/1/88).
Inspector/Management Planner Refresher Course (contingent from 6/26/89).
(34)(a) *Training Provider:* E.I. Dupont De Nemours & Co. Spruance Plant.
Address: P.O. Box 27001, Richmond, VA 23261, Contact: Clarence P. Mihal, Jr., Phone: (804) 743-2948.
(b) *Approved Course:*
- Abatement Worker (contingent from 11/14/88).
(35)(a) *Training Provider:* Eagle Industrial Hygiene Association Inc.
Address: 405 Masons Mill Rd., Huntingdon Valley, PA 19006, Contact: Stephen R. Bell, Phone: (215) 657-2261.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/6/89).
Abatement Worker (full from 7/14/89).
Abatement Worker Refresher Course (contingent from 10/30/89).
Contractor/Supervisor (contingent from 4/6/89).
Contractor/Supervisor (full from 7/14/89).
Contractor/Supervisor Refresher Course (contingent from 10/30/89).
Inspector/Management Planner (contingent from 5/16/89).
Inspector/Management Planner Refresher Course (contingent from 7/20/89).
Project Designer (contingent from 12/11/89).
(36)(a) *Training Provider:* Environmental Education Associates.
Address: 28 West Main St., Plymouth, PA 18651, Contact: Harry H. West, Phone: (717) 779-4242.
(b) *Approved Courses:*
- Abatement Worker (contingent from 5/17/89).
Contractor/Supervisor (contingent from 5/17/89).
Inspector (contingent from 5/17/89).
(37)(a) *Training Provider:* Environmental Training & Consultants, Inc.
Address: 2 Bala Plaza, Suite 300, Bala Cynwyd, PA 19004, Contact: Linda L. Kershaw, Phone: (215) 667-4685.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/6/89).
Contractor/Supervisor (contingent from 4/6/89).
Inspector/Management Planner (contingent from 4/6/89).
(38)(a) *Training Provider:* Environmental Training, Inc.
Address: 10 Industrial Hwy., Building N, Tincum Industrial Park, Philadelphia, PA 19113, Contact: Gary D. Hyrne, Phone: (215) 521-5469.
(b) *Approved Courses:*
- Abatement Worker (contingent from 3/1/89).
Abatement Worker Refresher Course (contingent from 6/29/89).
Contractor/Supervisor (contingent from 3/1/89).
Contractor/Supervisor Refresher Course (contingent from 6/29/89).
(39)(a) *Training Provider:* Facilities Management Consultants, Inc.
Address: P.O. Box 309, Cecil, PA 15321, Contact: Edward Monaco, Phone: (412) 745-1770.
(b) *Approved Courses:*
- Abatement Worker (contingent from 6/30/88).
Abatement Worker (full from 10/18/88).
Abatement Worker Refresher Course (contingent from 7/21/89).
Abatement Worker Refresher Course (full from 10/5/89).
Contractor/Supervisor (full from 10/18/88).
Contractor/Supervisor Refresher Course (contingent from 7/21/89).
Contractor/Supervisor Refresher Course (full from 10/5/89).
(40)(a) *Training Provider:* GA Environmental Services, Inc.
Address: Pier 5 Penn's Landing, Philadelphia, PA 19106, Contact: Frank E. Cona, Phone: (215) 351-4045.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/17/89).
Abatement Worker Refresher Course (contingent from 12/13/89).
Contractor/Supervisor (contingent from 8/17/89).
Contractor/Supervisor Refresher Course (contingent from 12/13/89).
Inspector/Management Planner (contingent from 11/7/89).
Inspector/Management Planner Refresher Course (contingent from 11/7/89).
Project Designer (contingent from 8/17/89).
Project Designer Refresher Course (contingent from 12/13/89).
(41)(a) *Training Provider:* GST Co.
Address: Freedom Professional Bldg., 1341 Old Freedom Rd., Suite 3B, Mars, PA 16046, Contact: Norma Stanford, Phone: (412) 772-7488.
(b) *Approved Courses:*
- Abatement Worker (contingent from 11/14/88).
Abatement Worker (full from 12/5/88).
Abatement Worker Refresher Course (contingent from 1/30/89).
Contractor/Supervisor (contingent from 11/14/88).
Contractor/Supervisor (full from 12/5/88).
Contractor/Supervisor Refresher Course (contingent from 1/30/89).
Inspector/Management Planner (contingent from 12/29/88).
Inspector/Management Planner Refresher Course (contingent from 12/12/89).
(42)(a) *Training Provider:* Galson Technical Services, Inc.
Address: 5170 Campus Dr., Suite 200, Plymouth Meeting, PA 19462, Contact: Ernest L. Sweet, Phone: (215) 432-0506.
(b) *Approved Course:*
- Inspector/Management Planner (contingent from 6/17/88).
(43)(a) *Training Provider:* General Physics Corp.
Address: 6700 Alexander Bell Dr., Columbia, MD 21046, Contact: Andrew K. Marsh, Phone: (301) 290-2360.

- (b) *Approved Courses:*
Abatement Worker (contingent from 4/6/89).
Contractor/Supervisor (contingent from 4/6/89).
- (44)(a) *Training Provider:* Genty Associates.
Address: 6080 Woodland Ave., Philadelphia, PA 19143, Contact: Frank Genty, Phone: (215) 727-4420.
- (b) *Approved Course:*
Abatement Worker (contingent from 9/14/89).
- (45)(a) *Training Provider:* Gerald T. Fenton, Inc.
Address: 3152 Bladensburg Rd., Washington, DC 20018, Contact: James R. Foster, Phone: (202) 269-2112.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/15/88).
Contractor/Supervisor (contingent from 12/15/88).
- (46)(a) *Training Provider:* Hazard Abatement Training Center.
Address: 101 East Lancaster Ave., Wayne, PA 19087, Contact: Robert Mautner, Phone: (215) 971-0830.
- (b) *Approved Course:*
Inspector/Management Planner (contingent from 4/12/88).
- (47)(a) *Training Provider:* Hazardous Materials Management.
Address: 932 W Patipso Ave., Baltimore, MD 21230, Contact: Anthony Bizzari, Phone: (301) 355-6586.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/11/89).
Contractor/Supervisor (contingent from 12/11/89).
- (48)(a) *Training Provider:* Heat & Frost Insulators & Asbestos Workers Local Union No. 2.
Address: Moon-Clinton Rd., P.O. Box 595, Clinton, PA 15026, Contact: Terry Larkin, Phone: (412) 276-3711.
- (b) *Approved Courses:*
Abatement Worker (contingent from 9/28/88).
Abatement Worker (full from 10/25/88).
Abatement Worker Refresher Course (contingent from 9/28/88).
Abatement Worker Refresher Course (full from 12/8/88).
Contractor/Supervisor (contingent from 9/28/88).
Contractor/Supervisor Refresher Course (contingent from 9/28/88).
- (49)(a) *Training Provider:* Heat & Frost Insulators & Asbestos Workers Local Union No. 23.
Address: 42 Lynwood Dr., Rd. 4, Allentown, PA 18103, Contact: Jos Klocek, Phone: (717) 564-7563.
- (b) *Approved Course:*
Abatement Worker (contingent from 10/20/88).
- (50)(a) *Training Provider:* Ind. Tra. Co. Ltd. Address: 18 South 22nd St., Richmond, VA 23223-7024, Contact: Vera Barley, Phone: (804) 648-7838. (b) *Approved Courses:* Abatement Worker (full from 9/15/87). Abatement Worker Refresher Course (contingent from 8/12/88). Contractor/Supervisor (full from 9/15/87). Inspector/Management Planner (full from 9/16/88). Inspector/Management Planner Refresher Course (full from 3/1/89).
- (51)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 38.
Address: 315-317 North Washigton St., Wilkes-Barre, PA 18703, Contact: Robert Hughes, Phone: (717) 829-0634.
- (b) *Approved Course:*
Abatement Worker (contingent from 3/2/89).
- (52)(a) *Training Provider:* JMR Associates.
Address: P.O. Box 9895, Philadelphia, PA 19140, Contact: Joseph Faulk III, Phone: (215) 227-3035.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/24/89).
Abatement Worker (full from 9/15/89).
Contractor/Supervisor (contingent from 8/24/89).
Contractor/Supervisor (full from 9/15/89).
- (53)(a) *Training Provider:* Jenkins Professionals, Inc.
Address: 5022 Campbell Blvd., Suite F, Baltimore, MD 21236, Contact: Larry Jenkins, Phone: (301) 529-3553.
- (b) *Approved Courses:*
Abatement Worker (contingent from 2/10/88).
Abatement Worker Refresher Course (contingent from 3/2/89).
Contractor/Supervisor (contingent from 2/10/88).
Contractor/Supervisor Refresher Course (contingent from 3/2/89).
Inspector/Management Planner (contingent from 11/1/89).
- (54)(a) *Training Provider:* Laborers District Council Training Fund of Baltimore & Vicinity.
Address: 7400 Buttercup Rd., Sykesville, MD 21784, Contact: Robert Williams, Phone: (301) 549-1800.
- (b) *Approved Course:*
Abatement Worker (contingent from 4/10/89).
- (55)(a) *Training Provider:* Laborers District Council of Eastern Pennsylvania.
Address: 2163 Berryhill St., Harrisburg, PA 17104, Contact: Gerald D. Temarantz, Phone: (717) 564-2707.
- (b) *Approved Courses:*
Abatement Worker (contingent from 6/17/88).
Abatement Worker (full from 1/30/89).
Abatement Worker Refresher Course (contingent from 8/17/89).
- (56)(a) *Training Provider:* Laborers District Council of Western Pennsylvania.
Address: 1101 Fifth Ave., Pittsburgh, PA 15219, Contact: Robert F. Ferrari, Phone: (412) 391-8533.
- (b) *Approved Courses:*
Abatement Worker (contingent from 6/17/88).
Abatement Worker (full from 10/31/88).
Abatement Worker Refresher Course (contingent from 3/2/89).
Contractor/Supervisor (contingent from 6/17/88).
Contractor/Supervisor (full from 10/31/88).
Contractor/Supervisor Refresher Course (contingent from 8/17/89).
- (57)(a) *Training Provider:* Laborers District Council, Education Training Fund of Philadelphia & Vicinity.
Address: 500 Lancaster Ave., Exton, PA 19341, Contact: Jerry Roseman, Phone: (215) 836-1175.
- (b) *Approved Courses:*
Abatement Worker (interim from 11/1/87 to 12/14/87).
Abatement Worker (contingent from 2/18/88).
Contractor/Supervisor Refresher Course (contingent from 4/20/89).
- (58)(a) *Training Provider:* Marcus Environmental.
Address: 6345 Courthouse Rd., P.O. Box 227, Prince George, VA 23875, Contact: Susan M. Wilcox, Phone: (804) 733-1855.
- (b) *Approved Courses:*
Abatement Worker (contingent from 1/26/89).
Contractor/Supervisor (contingent from 1/26/89).
- (59)(a) *Training Provider:* Maryland Department of the Environment.
Address: 2500 Broening Hwy., Baltimore, MD 21224, Contact: Barbara Conrad, Phone: (301) 631-3847.
- (b) *Approved Courses:*
Abatement Worker (contingent from 11/16/89).
Contractor/Supervisor (contingent from 11/16/89).
- (60)(a) *Training Provider:* Maryland Industrial Safety Training Services.

Address: 668 Shore Dr., Joppa, MD 21085, Contact: Brain Stewart, Phone: (301) 679-9362.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/11/89).

Contractor/Supervisor (contingent from 12/11/89).

(61)(a) *Training Provider:* Medical College of Virginia Virginia Commonwealth University Dept. of Preventive Medicine.

Address: P.O. Box 212, Richmond, VA 23298, Contact: Leonard Vance, Phone: (804) 786-9785.

(b) *Approved Courses:*

Contractor/Supervisor (contingent from 10/2/87).

Contractor/Supervisor (full from 11/2/87).

Contractor/Supervisor Refresher Course (contingent from 8/12/88).

Inspector/Management Planner (full from 2/29/88).

Inspector/Management Planner Refresher Course (contingent from 12/29/88).

(62)(a) *Training Provider:* National Association of Minority Contractors.

Address: 806 15th St., NW, Washington, DC 20012, Contact: Ralph C. Thomas, III, Phone: (202) 347-8259.

(b) *Approved Courses:*

Abatement Worker (contingent from 4/19/89).

Contractor/Supervisor (contingent from 4/19/89).

(63)(a) *Training Provider:* National Training Fund/Workers Institute for Safety & Health (WISH).

Address: 1126 16th St., NW, Washington, DC 20036, Contact: Scott Schneider, Phone: (202) 887-1980.

(b) *Approved Courses:*

Abatement Worker (interim from 11/1/86 to 8/1/87).

Abatement Worker (contingent from 9/18/87).

Abatement Worker (full from 9/18/87).

Abatement Worker Refresher Course (contingent from 12/29/88).

Contractor/Supervisor (interim from 11/1/86 to 8/1/87).

Contractor/Supervisor (contingent from 9/18/87).

Contractor/Supervisor (full from 9/18/87).

Contractor/Supervisor Refresher Course (contingent from 5/18/89).

Inspector (contingent from 5/26/88).

(64)(a) *Training Provider:*

Occupational Medical Center.

Address: 4451 Parliament Pl., Lanham, MD 20706, Contact: Ellen Kite, Phone: (301) 306-0632.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/28/88).

Abatement Worker Refresher Course (contingent from 12/13/89).

Contractor/Supervisor (contingent from 9/25/89).

Contractor/Supervisor Refresher Course (contingent from 12/13/89).

(65)(a) *Training Provider:* Old Dominion University Office of Continuing Education College of Health Services.

Address: 204 Old Science Building, Norfolk, VA 23529-0290, Contact: Shirley Glover, Phone: (804) 440-4256.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/30/88).

Abatement Worker (full from 7/27/88).

(66)(a) *Training Provider:* Oneil M. Banks, Inc.

Address: 336 South Main St., Bel Air, MD 21014, Contact: Oneil M. Banks, Phone: (301) 879-4676.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/5/88).

Abatement Worker (full from 2/20/89).

Abatement Worker Refresher Course (contingent from 10/12/89).

Contractor/Supervisor (contingent from 1/5/88).

Contractor/Supervisor Refresher Course (contingent from 10/12/89).

Inspector (contingent from 3/14/88).

(67)(a) *Training Provider:* Paskal Environmental Services.

Address: 6010 Sonoma Rd., Bethesda, MD 20817, Contact: Steve Paskal, Phone: (301) 571-1507.

(b) *Approved Course:*

Abatement Worker (contingent from 4/28/88).

(68)(a) *Training Provider:* Pennsylvania Dept. of Welfare.

Address: Room 103 Capitol Associates Bldg., P.O. Box 2675, Harrisburg, PA 17105, Contact: Gerald A. Donatucci, Phone: (717) 783-9543.

(b) *Approved Course:*

Abatement Worker Refresher Course (contingent from 8/17/89).

(69)(a) *Training Provider:* Philadelphia Electric Co.

Address: Barbados Training Center, Norristown, PA 19401, Contact: John J. Stankiewicz, Phone: (215) 270-8600.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/19/88).

Abatement Worker (full from 7/28/89).

Abatement Worker Refresher Course (contingent from 2/24/89).

Abatement Worker Refresher Course (full from 11/15/89).

(70)(a) *Training Provider:* Phoenix Safety Associates, Ltd.

Address: P.O. Box 545, Phoenixville, PA 19460, Contact: Janice Sharkey, Phone: (215) 935-1770.

(b) *Approved Course:*

Inspector/Management Planner (contingent from 9/1/88).

(71)(a) *Training Provider:* Quality Specialities, Inc.

Address: P.O. Box 46, 109 South 15th Ave., Hopewell, VA 23860, Contact: Lewis Stevenson, Phone: (804) 458-5855.

(b) *Approved Course:*

Abatement Worker (contingent from 8/8/88).

(72)(a) *Training Provider:* RCW Environmental Consulting & Training.

Address: 711 Shetland St., Rockville, MD 20851, Contact: Robert C. Wyatt, Phone: (301) 251-0291.

(b) *Approved Courses:*

Abatement Worker (contingent from 8/1/89).

Contractor/Supervisor (contingent from 8/1/89).

Inspector/Management Planner (contingent from 11/1/89).

(73)(a) *Training Provider:* Roofer Local No. 30/Roofing & Sheet Metal Contractors of Philadelphia & Vicinity Joint Apprentice Program.

Address: 433 Kelly Dr., Philadelphia, PA 19129, Contact: Richard Harvey, Phone: (215) 849-4800.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/21/89).

Contractor/Supervisor (contingent from 7/21/89).

(74)(a) *Training Provider:* S.G. Brown, Inc.

Address: 2701 Sonic Dr., Virginia Beach, VA 23456, Contact: Sandra A. Akers, Phone: (804) 468-0027.

(b) *Approved Course:*

Abatement Worker (contingent from 7/12/88).

(75)(a) *Training Provider:* STI, Inc.

Address: P.O. Box 1029, Aberdeen, MD 21001, Contact: Terry F. Carraway, Jr., Phone: (301) 575-7844.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/19/88).

Abatement Worker Refresher Course (contingent from 12/29/88).

Contractor/Supervisor (contingent from 7/19/88).

- Contractor/Supervisor Refresher Course (contingent from 12/29/88).
- Inspector/Management Planner (contingent from 12/15/88).
- Inspector/Management Planner Refresher Course (contingent from 10/30/89).
- (76)(a) *Training Provider:* STIC Corporation.
Address: Box 347, Wilkes-Barre, PA 18703, Contact: Ed Barrett, Phone: (717) 829-3614.
(b) *Approved Course:*
- Contractor/Supervisor (contingent from 4/7/89).
- (77)(a) *Training Provider:* Safety Management Institute.
Address: P.O. Box 1844, Altoona, PA 16603, Contact: Christopher Tate, Phone: (814) 946-1221.
(b) *Approved Courses:*
- Abatement Worker (Approval Suspended 10/2/89).
- Abatement Worker Refresher Course (Approval Suspended 10/2/89).
- Contractor/Supervisor (Approval Suspended 10/2/89).
- Contractor/Supervisor Refresher Course (Approval Suspended 10/2/89).
- Inspector/Management Planner (Approval Suspended 10/2/89).
- Inspector/Management Planner Refresher Course (Approval Suspended 10/2/89).
- (78)(a) *Training Provider:* Schneider Engineers.
Address: 98 Vanadium Rd., Bridgeville, PA 15017, Contact: Amy Couch Shultz, Phone: (412) 221-1100.
(b) *Approved Courses:*
- Abatement Worker (contingent from 2/22/89).
- Abatement Worker Refresher Course (contingent from 4/20/89).
- Contractor/Supervisor (contingent from 2/22/89).
- Contractor/Supervisor Refresher Course (contingent from 4/20/89).
- Inspector/Management Planner (contingent from 2/22/89).
- Inspector/Management Planner Refresher Course (contingent from 4/20/89).
- (79)(a) *Training Provider:* Temple University College of Engineering Asbestos Abatement Center.
Address: 12th & Norris Sts., Philadelphia, PA 19122, Contact: Lester Levin, Phone: (215) 787-6479.
(b) *Approved Courses:*
- Abatement Worker (full from 10/21/87).
- Contractor/Supervisor (contingent from 9/28/87).
- Contractor/Supervisor (full from 10/1/87).
- Inspector/Management Planner (full from 10/13/87).
- Inspector/Management Planner Refresher Course (full from 12/19/88).
- Project Designer (contingent from 3/20/89).
- (80)(a) *Training Provider:* Tetra Services, Inc.
Address: Pleasant Valley Rd., P.O. Box 295A, Trafford, PA 15085, Contact: Dominic R. Medure, Phone: (412) 744-3377.
(b) *Approved Course:*
- Abatement Worker (contingent from 4/20/89).
- (81)(a) *Training Provider:* The Glaser Co.
Address: 200 Kanawha Ter., St. Albans, WV 25177, Contact: Stephen P. Glaser, Phone: (304) 722-2832.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/6/89).
- Contractor/Supervisor (contingent from 4/6/89).
- (82)(a) *Training Provider:* The J.O.B.S. Company.
Address: P.O. Box 3763, Charleston, WV 25337, Contact: Ann Hyre, Phone: (304) 344-0048.
(b) *Approved Courses:*
- Abatement Worker (contingent from 5/28/89).
- Contractor/Supervisor (contingent from 5/25/89).
- (83)(a) *Training Provider:* Tracor Jitco, Inc.
Address: 1601 Research Blvd., Rockville, MD 20850, Contact: Daniel O. Chute, Phone: (301) 984-2718.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/4/89).
- Contractor/Supervisor (contingent from 1/4/89).
- Inspector/Management Planner (contingent from 1/4/89).
- (84)(a) *Training Provider:* United Environmental Systems, Inc.
Address: 104-106 Arch St., Philadelphia, PA 19106, Contact: Michael Yaron, Phone: (215) 829-9454.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/3/88).
- Contractor/Supervisor (contingent from 6/30/88).
- Inspector/Management Planner (contingent from 7/8/88).
- (85)(a) *Training Provider:* University of Pittsburgh Graduate School of Public Health.
Address: Dept. of Industrial Environmental, Health Sciences, Pittsburgh, PA 15261, Contact: Dietrich A. Weyel, Phone: (412) 624-3042.
(b) *Approved Courses:*
- Abatement Worker (contingent from 3/6/88).
- Abatement Worker (full from 6/6/88).
- Abatement Worker Refresher Course (contingent from 4/20/89).
- Contractor/Supervisor (contingent from 3/6/88).
- Contractor/Supervisor (full from 6/6/88).
- Contractor/Supervisor Refresher Course (contingent from 4/20/89).
- (86)(a) *Training Provider:* University of Scranton Technology Center.
Address: Scranton, PA 18510-2192, Contact: Jerome P. De Santo, Phone: (717) 961-4050.
(b) *Approved Course:*
- Inspector/Management Planner (contingent from 6/26/89).
- (87)(a) *Training Provider:* Volz Environmental Services, Inc.
Address: 3010 William Pitt Way, Pittsburgh, PA 15238, Contact: Greg Ashman, Phone: (412) 826-3150.
(b) *Approved Courses:*
- Abatement Worker (contingent from 10/3/88).
- Abatement Worker (full from 1/23/89).
- Abatement Worker Refresher Course (contingent from 4/20/89).
- Abatement Worker Refresher Course (full from 11/21/89).
- Contractor/Supervisor (contingent from 10/3/88).
- Contractor/Supervisor (full from 1/23/89).
- Contractor/Supervisor Refresher Course (contingent from 4/20/89).
- Contractor/Supervisor Refresher Course (full from 11/21/89).
- Inspector/Management Planner (contingent from 10/3/88).
- Inspector/Management Planner Refresher Course (contingent from 4/20/89).
- Inspector/Management Planner Refresher Course (full from 12/18/89).
- Project Designer (contingent from 9/1/89).
- Project Designer (full from 12/8/89).
- Project Designer Refresher Course (contingent from 12/13/89).
- (88)(a) *Training Provider:* Waco, Inc.
Address: Highway 925, N, P.O. Box 759, Waldorf, MD 20601, Contact: Wayne Cooper, Phone: (301) 843-2488.
(b) *Approved Courses:*
- Abatement Worker (full from 9/15/87).
- Abatement Worker Refresher Course (contingent from 8/12/88).
- Contractor/Supervisor (full from 9/15/87).

- Contractor/Supervisor Refresher Course (contingent from 3/1/89).
Inspector/Management Planner Refresher Course (contingent from 3/11/88).
(89)(a) *Training Provider:* West Virginia Laborers Training Trust Fund.
Address: One Monogalia St., Charleston, WV 25302, Contact: Wetzel Harvey, Phone: (304) 346-0581.
(b) *Approved Course:*
Abatement Worker (contingent from 8/29/88).
(90)(a) *Training Provider:* West Virginia University Extension Service.
Address: 704 Knapp Hall, P.O. Box 6031, Morgantown, WV 26506-6031, Contact: Robert L. Moore, Phone: (304) 293-4013.
(b) *Approved Courses:*
Abatement Worker (contingent from 10/20/88).
Abatement Worker Refresher Course (contingent from 11/2/89).
Contractor/Supervisor (contingent from 10/20/88).
Contractor/Supervisor Refresher Course (contingent from 11/2/89).
Inspector/Management Planner (contingent from 5/9/88).
Inspector/Management Planner Refresher Course (contingent from 4/20/89).
Inspector/Management Planner Refresher Course (full from 4/26/89).
(91)(a) *Training Provider:* White Lung Association.
Address: 1114 Cathedral St., Baltimore, MD 21201, Contact: James Fite, Phone: (301) 727-6029.
(b) *Approved Courses:*
Abatement Worker (contingent from 2/18/88).
Abatement Worker (full from 6/6/88).
Abatement Worker Refresher Course (contingent from 2/23/89).
Contractor/Supervisor (contingent from 2/18/88).
Contractor/Supervisor (full from 6/6/88).
Contractor/Supervisor Refresher Course (contingent from 2/23/89).
Inspector/Management Planner (contingent from 1/4/88).
Inspector/Management Planner (full from 2/15/88).
Inspector/Management Planner Refresher Course (contingent from 12/29/88).
(92)(a) *Training Provider:* William L. James Enterprises, Inc.
Address: P.O. Box 1478, Scranton, PA 18501-1478, Contact: William L. James, Phone: (717) 344-5830.
(b) *Approved Courses:*
Abatement Worker Refresher Course (contingent from 11/7/89).
- Contractor/Supervisor (contingent from 4/20/88).
Contractor/Supervisor Refresher Course (contingent from 11/7/87).
EPA-Approved Training Courses
REGION IV—Atlanta, GA
Regional Asbestos Coordinator: Liz Wilde, EPA, Region IV, 345 Courtland St., NE, (4APT-PT), Atlanta, GA 30365. (404) 347-5014, (FTS) 257-5014.
List of Approved Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region IV training courses and contact points for each, are as follows:
(1)(a) *Training Provider:* A.S.C. Consultants, Inc.
Address: P.O. Box 31, Waynesville, NC 28786, Contact: Terry LaDuke, Phone: (704) 452-3449.
(b) *Approved Course:*
Abatement Worker (contingent from 6/22/89).
(2)(a) *Training Provider:* AHP Research, Inc.
Address: 1505 Johnson's Ferry Rd., Marietta, GA 30062, Contact: Dwight Brown, Phone: (404) 565-0061.
(b) *Approved Courses:*
Abatement Worker (contingent from 11/3/89).
Contractor/Supervisor (contingent from 11/13/89).
Contractor/Supervisor Refresher Course (contingent from 1/6/89).
Inspector/Management Planner (interim from 5/28/86 to 12/13/87).
Inspector/Management Planner (full from 12/14/87).
(3)(a) *Training Provider:* ARI Institute.
Address: P.O. Box 60599, Nashville, TN 37206, Contact: Paul Morris, Phone: (615) 228-3820.
(b) *Approved Course:*
Abatement Worker (contingent from 12/6/89).
(4)(a) *Training Provider:* ASC Asbestos Training Center.
Address: 13551 Brown Road, Denham Springs, LA 70726, Contact: Don Hoffman, Phone: (504) 664-6884.
(b) *Approved Courses:*
Abatement Worker (contingent from 2/4/90).
Abatement Worker Refresher Course (contingent from 2/4/90).
Contractor/Supervisor (contingent from 2/4/90).
Inspector/Management Planner (contingent from 2/5/90).
- Inspector/Management Planner Refresher Course (contingent from 2/5/90).
Project Designer (contingent from 2/5/90).
(5)(a) *Training Provider:* ATEC Associates, Inc.
Address: 129 West Valley Ave., Birmingham, AL 35209-3691, Contact: W. David Yates, Phone: (205) 945-9224.
(b) *Approved Courses:*
Abatement Worker (contingent from 4/14/89).
Contractor/Supervisor (contingent from 4/14/89).
Inspector/Management Planner (contingent from 4/14/89).
(6)(a) *Training Provider:* ATI Environmental Services.
Address: P.O. Box 3044, Louisville, KY 40201, Contact: Tim Ellis, Phone: (502) 589-5308.
(b) *Approved Courses:*
Abatement Worker (full from 1/12/88).
Abatement Worker Refresher Course (contingent from 2/21/89).
Contractor/Supervisor (full from 1/12/88).
Contractor/Supervisor Refresher Course (contingent from 2/21/89).
(7)(a) *Training Provider:* All Gulf Contractors, Inc.
Address: 3654 Halls Mill Rd., Mobile, AL 36693, Contact: Robert Pettie, Phone: (205) 665-5199.
(b) *Approved Course:*
Abatement Worker (contingent from 2/22/89).
(8)(a) *Training Provider:* American Environmental Safety Institute.
Address: P.O. Box 212116, Columbia, SC 29221-2116, Contact: Kim Cleveland, Phone: (803) 731-2986.
(b) *Approved Courses:*
Abatement Worker (contingent from 1/29/89).
Abatement Worker Refresher Course (contingent from 12/16/88).
Contractor/Supervisor (full from 10/17/88).
Contractor/Supervisor Refresher Course (contingent from 12/16/88).
Inspector/Management Planner (full from 2/8/89).
(9)(a) *Training Provider:* Arch Training Services, Inc.
Address: Hotel Royal Plaza, P.O. Box 22203, Lake Buena Vista, FL 32830-2203, Contact: Arleen Folkes Goldberg, Phone: (407) 827-3985.
(b) *Approved Courses:*
Abatement Worker (contingent from 3/2/89).

Contractor/Supervisor (contingent from 3/2/89).

Inspector/Management Planner (contingent from 3/2/89).

(10)(a) *Training Provider:* Asbestos Abatement Associates, Inc.

Address: P.O. Box 8178, Spartanburg, SC 29305, Contact: Joy Finch, Phone: (803) 582-1222.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/17/89).

Abatement Worker (full from 6/26/89).

Contractor/Supervisor (contingent from 3/7/89).

Contractor/Supervisor (full from 9/15/89).

Project Designer (contingent from 11/14/89).

Project Designer Refresher Course (contingent from 10/18/89).

Project Designer Refresher Course (full from 11/21/89).

(11)(a) *Training Provider:* Asbestos Consultants, Inc.

Address: P.O. Box 9054, Greensboro, NC 27408, Contact: Thomas Petty, Phone: (919) 275-3907.

(b) *Approved Course:*

Inspector/Management Planner (contingent from 3/9/88).

(12)(a) *Training Provider:* Asbestos Consulting & Training Systems.

Address: 903 Northwest 6th Ave., Ft. Lauderdale, FL 33311, Contact: James F. Stump, Phone: (305) 524-7208.

(b) *Approved Courses:*

Abatement Worker (full from 5/8/88).

Contractor/Supervisor (contingent from 2/22/89).

(13)(a) *Training Provider:* Asbestos Disease Association.

Address: 800 West Platt St., Tampa, FL 33706, Contact: John D. Householter, Phone: (813) 254-0003.

(b) *Approved Courses:*

Contractor/Supervisor (contingent from 12/11/89).

Inspector/Management Planner (contingent from 12/11/89).

(14)(a) *Training Provider:* Asbestos Technical Resource Center, Inc.

Address: P.O. Box 2755, Covington, GA 30209-2755, Contact: Timothy E. Fuller, Phone: (404) 361-9182.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/2/89).

Abatement Worker Refresher Course (full from 6/7/89).

Contractor/Supervisor (contingent from 6/2/89).

Contractor/Supervisor (full from 8/10/89).

Contractor/Supervisor Refresher Course (full from 6/7/89).

(15)(a) *Training Provider:* Atlantic Environmental Consulting, Inc.

Address: 12200 Southwest 132 Ct., Miami, FL 33186, Contact: Stephan R. Schanamann, Phone: (305) 232-6364.

(b) *Approved Course:*

Abatement Worker (contingent from 8/11/88).

(16)(a) *Training Provider:* BCM Engineers, Inc.

Address: 108 St. Anthony St., P.O. Box 1784, Mobile, AL 36633, Contact: H. Conrad Freeman, Phone: (205) 433-3981.

(b) *Approved Courses:*

Inspector/Management Planner (full from 11/11/87).

Inspector/Management Planner Refresher Course (contingent from 11/10/88).

Project Designer (full from 12/8/87).

Project Designer Refresher Course (contingent from 5/4/89).

(17)(a) *Training Provider:* Betchel Construction, Inc.

Address: P.O. Box 3218, Florida City, FL 33034, Contact: R.C. Slover, Phone: (305) 246-6565.

(b) *Approved Course:*

Abatement Worker (contingent from 3/13/89).

(18)(a) *Training Provider:* Big Bend Abatement, Inc.

Address: 3542 West Orange Ave., Tallahassee, FL 32310, Contact: Robert Law, Phone: (904) 576-0130.

(b) *Approved Course:*

Abatement Worker (contingent from 4/28/89).

(19)(a) *Training Provider:* Briggs Associates Int'l. Inc.

Address: 4209 Vineland Rd., Suites J-9/10, Orlando, FL 32811, Contact: Jim McCulloch, Phone: (407) 422-3522.

(b) *Approved Course:*

Abatement Worker (contingent from 5/4/89).

(20)(a) *Training Provider:* CRU Incorporated.

Address: 13029 Middletown Industrial Blvd., Louisville, KY 40223, Contact: Donna Ringo, Phone: (502) 244-8844.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/1/89).

Contractor/Supervisor (contingent from 5/1/89).

Inspector/Management Planner (contingent from 5/26/89).

(21)(a) *Training Provider:* DPC General Contractors, Inc.

Address: 250 Arizona Ave., NE, Bldg. A, Atlanta, GA 30307, Contact: Glen Kahler, Phone: (404) 373-0561.

(b) *Approved Courses:*

Abatement Worker (contingent from 4/5/88).

Abatement Worker (full from 5/9/88).

(22)(a) *Training Provider:* EEC, Inc.

Address: 2245 North Hills Dr., Suite J, Raleigh, NC 27612, Contact: Mike Shrimanker, Phone: (919) 782-8910.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/7/89).

Abatement Worker (full from 11/16/89).

Abatement Worker Refresher Course (contingent from 5/3/89).

Contractor/Supervisor Refresher Course (contingent from 9/28/89).

(23)(a) *Training Provider:* ELB & Associates, Inc.

Address: 605 Eastowne Dr., Chapel Hill, NC 27514, Contact: Michael L. Cannon, Phone: (919) 493-4471.

(b) *Approved Course:*

Abatement Worker (contingent from 6/30/88).

(24)(a) *Training Provider:* Eagle Environmental Laboratory.

Address: 1119 Ellard Rd., Fultondale, AL 35068, Contact: Mark Cambron, Phone: (205) 841-7693.

(b) *Approved Course:*

Abatement Worker (contingent from 11/14/89).

(25)(a) *Training Provider:* Energy Support Services, Inc.

Address: P.O. Box 6098, Ashville, NC 28816, Contact: Edward T. Rochelle, Phone: (704) 258-8888.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/7/89).

Contractor/Supervisor (contingent from 11/7/89).

Inspector/Management Planner (contingent from 3/5/89).

(26)(a) *Training Provider:* Enpuricon Asbestos Management.

Address: 6308—D Angus Dr., Raleigh, NC 27613, Contact: Terry E. Slate, Phone: (919) 781-0886.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/11/89).

Contractor/Supervisor (contingent from 2/6/89).

(27)(a) *Training Provider:* Enviro Science, Inc.

Address: 3509 Hayworth Dr., Raleigh, NC 27609, Contact: Reginald C. Jordan, Phone: (919) 782-6527.

(b) *Approved Course:*

Inspector/Management Planner (contingent from 9/15/88).

- (28)(a) *Training Provider:* Enviro-Tech.
Address: 550 Comet St., No. 16, P.O. Box 6752, Jacksonville, FL 32236, Contact: Rafael Abrev, Phone: (904) 384-0732.
- (b) *Approved Courses:*
Abatement Worker (contingent from 4/28/89).
Contractor/Supervisor (contingent from 7/11/89).
- (29)(a) *Training Provider:* Environmental Aspects, Inc.
Address: 1527 North Dale Mabry Hwy., Suite 105, Lutz, FL 33549-3010, Contact: Dennis L. Mast, Phone: (813) 948-1387.
- (b) *Approved Courses:*
Abatement Worker (contingent from 2/22/89).
Abatement Worker (full from 7/7/89).
Abatement Worker Refresher Course (contingent from 7/18/89).
Contractor/Supervisor (contingent from 4/14/89).
Contractor/Supervisor Refresher Course (contingent from 10/20/89).
Inspector/Management Planner (contingent from 6/30/89).
Inspector/Management Planner Refresher Course (contingent from 10/20/89).
- (30)(a) *Training Provider:* Environmental Control Systems Training Institute.
Address: 2720 Frankfort Ave., Louisville, KY 40206, Contact: William A. Sadler, Phone: (502) 896-1245.
- (b) *Approved Courses:*
Contractor/Supervisor (contingent from 8/10/89).
Inspector/Management Planner (contingent from 11/6/89).
- (31)(a) *Training Provider:* Environmental Engineering Co., Inc.
Address: 500 Rivermont Rd., Columbia, SC 29210, Contact: Russell Richard, Phone: (803) 256-7846.
- (b) *Approved Courses:*
Abatement Worker (contingent from 2/17/89).
Abatement Worker (full from 9/22/89).
Abatement Worker Refresher Course (contingent from 9/28/89).
Contractor/Supervisor (contingent from 2/17/89).
Contractor/Supervisor (full from 9/22/89).
Contractor/Supervisor Refresher Course (contingent from 9/28/89).
- (32)(a) *Training Provider:* Environmental Resources Group.
Address: 3845 Viscount, Memphis, TN 38118, Contact: Lee C. Thompson, Phone: (901) 795-0432.
- (b) *Approved Course:* Abatement Worker (contingent from 11/14/88).
- (33)(a) *Training Provider:* Environmental Resources, Inc.
Address: P.O. Box 1462, Anderson, SC 29622, Contact: John G. Sean, Phone: (803) 226-5834.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/13/89).
Contractor/Supervisor (contingent from 10/13/89).
Inspector/Management Planner (contingent from 10/13/89).
Project Designer (contingent from 10/13/89).
- (34)(a) *Training Provider:* Environmental Training Corporation.
Address: 2252 Rocky Ridge Rd., Suite 105, Birmingham, AL 35216, Contact: William E. Hicks, Phone: (800) 999-1655.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/31/89).
Contractor/Supervisor (contingent from 10/31/89).
Project Designer (contingent from 10/31/89).
- (35)(a) *Training Provider:* Evans Environmental & Geological Science & Management, Inc.
Address: 2631 Southwest 27 St., Miami, FL 33133, Contact: Charles Evans, Phone: (305) 856-7458.
- (b) *Approved Course:* Abatement Worker (contingent from 1/31/89).
- (36)(a) *Training Provider:* Fayetteville Technical Community College.
Address: P.O. Box 35236, Fayetteville, NC 28303, Contact: John McNeill, Phone: (919) 323-1961.
- (b) *Approved Courses:*
Abatement Worker (contingent from 5/1/89).
Contractor/Supervisor (contingent from 5/1/89).
- (37)(a) *Training Provider:* Georgia Tech. Institute.
Address: O'Keefe Building, Room 029, Atlanta, GA 30332, Contact: Robert D. Schmitter, Phone: (404) 894-3806.
- (b) *Approved Courses:*
Contractor/Supervisor (interim from 6/1/85 to 5/10/87).
Contractor/Supervisor (full from 5/11/87).
Contractor/Supervisor Refresher Course (contingent from 9/23/87).
Contractor/Supervisor Refresher Course (full from 7/7/88).
Inspector/Management Planner (full from 10/19/87).
- Inspector/Management Planner Refresher Course (contingent from 10/24/88).
Inspector/Management Planner Refresher Course (full from 11/29/88).
Project Designer (contingent from 6/1/88).
Project Designer (full from 6/7/88).
Project Designer Refresher Course (contingent from 1/31/89).
Project Designer Refresher Course (full from 3/22/89).
- (38)(a) *Training Provider:* Great Barrier Insulation Co.
Address: Meador Warehouse, Western Dr., Mobile, AL 36607, Contact: Thomas Knotts, Phone: (205) 476-0350.
- (b) *Approved Courses:*
Abatement Worker (contingent from 5/13/88).
Abatement Worker (full from 4/4/89).
Abatement Worker Refresher Course (contingent from 3/30/89).
- (39)(a) *Training Provider:* Harmon Engineering Associates.
Address: 1550 Pumphrey Ave., Auburn, AL 36830, Contact: Roger W. Thompson, Phone: (205) 821-9250.
- (b) *Approved Course:* Abatement Worker (contingent from 1/4/89).
- (40)(a) *Training Provider:* Harrison Contracting, Inc.
Address: 3845 Viscount St., Suite 12, Memphis, TN 38118, Contact: Lee C. Thompson, Phone: (901) 795-0432.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/11/88).
Abatement Worker (full from 10/12/88).
- (41)(a) *Training Provider:* Howard I. Henson Training Institute.
Address: 3592 Flat Shoals Rd., Decatur, GA 30034, Contact: Stephen Henson, Phone: (404) 243-5107.
- (b) *Approved Course:* Abatement Worker (full from 2/16/88).
- (42)(a) *Training Provider:* International Association Heat & Frost Insulators & Asbestos Worker Local Union No. 13.
Address: 145 East First St., Jacksonville, FL 32206, Contact: Tom Mallard, Phone: (904) 355-4881.
- (b) *Approved Courses:*
Abatement Worker (contingent from 1/23/89).
Abatement Worker Refresher Course (contingent from 1/23/89).
Contractor/Supervisor (contingent from 1/23/89).
Contractor/Supervisor (full from 4/24/89).

- Contractor/Supervisor Refresher Course (contingent from 1/23/89).
(43)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 46.
Address: 7111 Wright Rd., Knoxville, TN 37931, Contact: John Wade, Phone: (615) 938-1274.
(b) *Approved Courses:*
Abatement Worker (full from 10/11/88).
Abatement Worker Refresher Course (contingent from 8/18/89).
Contractor/Supervisor (full from 1/9/89).
Contractor/Supervisor Refresher Course (contingent from 10/11/88).
Contractor/Supervisor Refresher Course (full from 1/9/89).
(44)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 48.
Address: 374 Maynard Terrace, SE, Suite 232, Atlanta, GA 30316, Contact: Timothy Fuller, Phone: (404) 373-9886.
(b) *Approved Courses:*
Abatement Worker (full from 5/4/88).
Contractor/Supervisor (full from 6/27/88).
Contractor/Supervisor Refresher Course (full from 11/2/88).
Inspector (contingent from 9/28/88).
Inspector (full from 9/28/88).
(45)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 60.
Address: 13000 Northwest 47th Ave., Miami, FL 33054, Contact: David Cleveland, Phone: (305) 681-0679.
(b) *Approved Courses:*
Abatement Worker (full from 11/15/88).
Contractor/Supervisor (full from 12/12/88).
(46)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 67.
Address: 7930 U.S. Hwy. 301 N, Tampa, FL 33637, Contact: Don Tucker, Phone: (813) 985-3087.
(b) *Approved Courses:*
Abatement Worker (full from 8/23/89).
Abatement Worker Refresher Course (contingent from 11/15/89).
Contractor/Supervisor (full from 11/29/88).
Contractor/Supervisor Refresher Course (contingent from 11/15/89).
(47)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 72.
Address: 2513 Adams St., Wilmington, NC 28401, Contact: Mike Harrell, Phone: (919) 343-1730.
(b) *Approved Course:*
Abatement Worker (full from 8/10/88).
(48)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 78.
Address: 600 Main St., Gardendale, AL 35071, Contact: Bill Boothe, Phone: (205) 631-4640.
(b) *Approved Courses:*
Abatement Worker (full from 10/25/88).
Contractor/Supervisor (contingent from 12/6/89).
Contractor/Supervisor Refresher Course (full from 5/17/89).
(49)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 86.
Address: 4822 Charlotte Ave., Nashville, TN 37209, Contact: Don Cundiff, Phone: (615) 297-7127.
(b) *Approved Courses:*
Abatement Worker (full from 7/10/89).
Contractor/Supervisor (full from 7/10/89).
(50)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 96.
Address: P.O. Box 508, Pooler, GA 31322, Contact: Mr. Hutcherson, Phone: (912) 748-6282.
(b) *Approved Courses:*
Abatement Worker (full from 7/26/88).
Abatement Worker Refresher Course (full from 8/17/89).
Contractor/Supervisor (full from 9/13/88).
Contractor/Supervisor Refresher Course (full from 8/17/89).
(51)(a) *Training Provider:* Kentucky Laborers Training Trust Fund.
Address: US 127 Bypass South, P.O. Box 208, Lawrenceburg, KY 40342, Contact: David Vinson, Phone: (502) 839-3155.
(b) *Approved Course:*
Abatement Worker (contingent from 1/10/89).
(52)(a) *Training Provider:* LCI Training Institute.
Address: 1432 Jocasta Dr., Lexington, KY 40502-5320, Contact: John F. Summersett, Phone: (606) 273-8881.
(b) *Approved Courses:*
Abatement Worker (contingent from 6/9/88).
Contractor/Supervisor (contingent from 6/9/88).
(53)(a) *Training Provider:* Laborers District Council of Southeast Florida.
Address: 799 Northwest 62nd St., Miami, FL 33510, Contact: Albert Houston, Phone: (305) 754-2659.
(b) *Approved Course:*
Abatement Worker (full from 3/15/88).
(54)(a) *Training Provider:* Laborers Local Union No. 517 North & Central Florida Education & Training Fund.
Address: 4625 Old Wintergarden Rd., Bldg. A-6, Orlando, FL 32811, Contact: Patrick O' Donnell, Phone: (407) 298-3446.
(b) *Approved Course:*
Abatement Worker Refresher Course (contingent from 9/22/89).
(55)(a) *Training Provider:* Lang Engineering of Florida, Inc.
Address: 5432 Commerce Park Blvd., Tampa, FL 33610, Contact: Robert Lang, Phone: (813) 622-8311.
(b) *Approved Courses:*
Abatement Worker (contingent from 1/17/89).
Abatement Worker Refresher Course (contingent from 8/9/89).
(56)(a) *Training Provider:* Laseter & Associates, Inc.
Address: P.O. Box 176, Collierville, TN 38017, Contact: Kenneth M. Laseter, Phone: (800) 456-8617.
(b) *Approved Courses:*
Abatement Worker (contingent from 11/7/89).
Contractor/Supervisor (contingent from 11/7/89).
Inspector/Management Planner (contingent from 11/7/89).
(57)(a) *Training Provider:* Law Engineering, Inc.
Address: 7616 Southland Blvd., Suite 110, Orlando, FL 32809, Contact: Diana Rigdon, Phone: (407) 855-8740.
(b) *Approved Courses:*
Abatement Worker (contingent from 9/1/89).
Contractor/Supervisor (contingent from 9/1/89).
(58)(a) *Training Provider:* Mississippi State University Dept. of Continuing Education.
Address: Memorial Hall-Bar Ave., P.O. Drawer 5247, Mississippi State, MS 39762-5247, Contact: Margaret V. Naugle, Phone: (601) 325-2877.
(b) *Approved Courses:*
Abatement Worker (contingent from 12/15/88).
Contractor/Supervisor (contingent from 7/19/88).
Contractor/Supervisor (full from 6/29/89).
Contractor/Supervisor Refresher Course (contingent from 5/28/89).

Inspector/Management Planner (full from 6/20/88).

Inspector/Management Planner Refresher Course (contingent from 5/26/89).

Project Designer (contingent from 12/15/88).

Project Designer Refresher Course (contingent from 5/26/89).

(59)(a) *Training Provider:* Mobile Asbestos Resource Services, Inc.

Address: 10 Airport Lane, Archer, FL 32618, Contact: Walter Heope, Phone: (904) 495-9214.

(b) *Approved Course:*

Abatement Worker (contingent from 12/6/89).

(60)(a) *Training Provider:* Mur-Shel, Inc. Asbestos Abatement.

Address: 1038 Grace Ave., Panama City, FL 32401, Contact: Lois Shelton, Phone: (904) 763-2010.

(b) *Approved Course:*

Contractor/Supervisor (contingent from 9/1/89).

(61)(a) *Training Provider:* National Asbestos Council (NAC) Training Dept.

Address: 1777 Northeast Expressway, Suite 150, Atlanta, GA 30329, Contact: Zachary S. Cowan, III, Phone: (404) 633-2622.

(b) *Approved Courses:*

Abatement Worker (interim from 7/1/86 to 6/1/87).

Abatement Worker (full from 7/1/87).

Abatement Worker Refresher Course (contingent from 2/8/89).

(62)(a) *Training Provider:* National Monitoring Labs, Inc.

Address: 1400 North 46th St., Suite V-28, Tampa, FL 33613, Contact: Gil Rakshi, Phone: (800) 347-3414.

(b) *Approved Courses:*

Contractor/Supervisor (contingent from 4/14/89).

Contractor/Supervisor Refresher Course (contingent from 5/23/89).

Inspector/Management Planner (contingent from 4/14/89).

Inspector/Management Planner Refresher Course (contingent from 5/23/89).

(63)(a) *Training Provider:* PDR Engineers, Inc.

Address: 2000 Lindell Ave., Nashville, TN 37203, Contact: Ayaja K. Upaphyaya, Phone: (615) 298-2065.

(b) *Approved Course:*

Inspector (contingent from 9/15/88).

(64)(a) *Training Provider:* Practical Environmental Training Institute.

Address: P.O. Box 26308, Charlotte, NC 28221-6308, Contact: Dianne Christenbery, Phone: (704) 598-9588.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/20/88).

Abatement Worker (full from 10/24/88).

Contractor/Supervisor (contingent from 1/17/89).

Contractor/Supervisor (full from 3/20/89).

(65)(a) *Training Provider:* Republic Industries, Inc.

Address: P.O. Box 5565, Station 1, Wilmington, NC 28403, Contact: Gerry Phelps, Phone: (919) 799-2664.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/23/89).

Contractor/Supervisor (contingent from 9/22/89).

Contractor/Supervisor Refresher Course (contingent from 6/5/89).

(66)(a) *Training Provider:* Retra Services, Inc.

Address: 1730 U.S. Alt. 19 South, Suite H, Tarpon Springs, FL 34689, Contact: Phillip Paroff, Phone: (800) 548-5848.

(b) *Approved Courses:*

Abatement Worker (full from 1/24/89).

Abatement Worker Refresher Course (contingent from 12/29/88).

Abatement Worker Refresher Course (full from 1/24/89).

(67)(a) *Training Provider:* Seagull Environmental Management Asbestos Consulting & Training Systems.

Address: 903 Northwest 6th Ave., Ft. Lauderdale, FL 33311, Contact: James F Stump, Phone: (305) 524-7208.

(b) *Approved Courses:*

Abatement Worker Refresher Course (contingent from 9/22/89).

Contractor/Supervisor Refresher Course (contingent from 9/22/89).

Inspector/Management Planner (contingent from 10/30/89).

(68)(a) *Training Provider:* South Carolina Research & Training Center.

Address: 300 Gervais St., Annex III, Columbia, SC 29201, Contact: Jan Temple, Phone: (803) 737-2060.

(b) *Approved Courses:*

Contractor/Supervisor (full from 3/8/88).

Inspector/Management Planner (full from 3/1/88).

(69)(a) *Training Provider:* Southeast Asbestos Free Environments, Inc.

Address: 350 South Second Ave., P.O. Box 51267, Jacksonville Beach, FL 32250, Contact: Jim Ilardi, Phone: (904) 723-3568.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/15/88).

Contractor/Supervisor (contingent from 1/18/89).

(70)(a) *Training Provider:* Technical Abatement Service, Inc.

Address: 897 East Lemon St., Bartow, FL 33830, Contact: John W. Pery, Phone: (813) 533-0885.

(b) *Approved Course:*

Abatement Worker (contingent from 6/21/89).

(71)(a) *Training Provider:* Technical Education Resources, Inc.

Address: 2212 Swann Ave., Suite D, Tampa, FL 33606, Contact: Robert Greene, Phone: (813) 251-1095.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/16/89).

Contractor/Supervisor (contingent from 11/16/89).

Inspector/Management Planner (contingent from 11/16/89).

(72)(a) *Training Provider:* Technical Training Institute.

Address: P.O. Box 3156, Anderson, SC 29622, Contact: Otey Reynolds, Phone: (803) 578-0358.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/13/89).

Abatement Worker Refresher Course (contingent from 10/17/89).

Contractor/Supervisor (contingent from 11/13/89).

Contractor/Supervisor Refresher Course (contingent from 10/17/89).

Inspector/Management Planner (contingent from 11/13/89).

Inspector/Management Planner Refresher Course (contingent from 10/17/89).

Project Designer (contingent from 11/13/89).

Project Designer Refresher Course (contingent from 10/17/89).

(73)(a) *Training Provider:* Tennessee Environmental Services.

Address: 1804 Williamson Ct., Brentwood, TN 37027, Contact: Claire Badan, Phone: (615) 373-8792.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/26/89).

Contractor/Supervisor (contingent from 5/26/89).

(74)(a) *Training Provider:* The Environmental Institute.

Address: COBB Corporate Center/300, 350 Franklin Rd., Marietta, GA 30067, Contact: Eva Clay, Phone: (404) 425-2000.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/10/87).

Abatement Worker (full from 5/2/88).

- Contractor/Supervisor (contingent from 12/10/87).
- Contractor/Supervisor (full from 2/1/88).
- Contractor/Supervisor Refresher Course (full from 5/19/88).
- Inspector/Management Planner (contingent from 12/10/87).
- Inspector/Management Planner (full from 1/25/88).
- Inspector/Management Planner Refresher Course (full from 11/8/88).
- Project Designer (contingent from 2/5/88).
- Project Designer (full from 2/9/88).
- Project Designer Refresher Course (contingent from 4/17/89).
- (75)(a) *Training Provider:* University of Alabama, Tuscaloosa College of Continuing Studies, Division of Envir. & Industrial Prog.
Address: P.O. Box 2967, Tuscaloosa, AL 35486-2967, Contact: William Weems, Phone: (205) 348-3033.
- (b) *Approved Courses:*
- Abatement Worker (full from 4/5/88).
- Contractor/Supervisor (full from 12/14/87).
- Inspector/Management Planner (full from 5/16/88).
- (76)(a) *Training Provider:* University of Alabama-Birmingham Deep South Center.
Address: Birmingham, AL 35294, Contact: Elizabeth Lynch, Phone: (205) 934-7032.
- (b) *Approved Courses:*
- Inspector/Management Planner (contingent from 3/21/88).
- Inspector/Management Planner (full from 3/21/88).
- Inspector/Management Planner Refresher Course (contingent from 3/3/89).
- (77)(a) *Training Provider:* University of Florida TREEO Center.
Address: 3900 Southwest 63rd Blvd., Gainesville, FL 32608, Contact: Peggy Cook-Holland, Phone: (904) 392-9470.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 8/12/88).
- Contractor/Supervisor (interim from 2/9/87 to 4/30/87).
- Contractor/Supervisor (full from 5/1/87).
- Contractor/Supervisor Refresher Course (contingent from 1/17/89).
- Inspector/Management Planner (interim from 1/27/87 to 12/14/87).
- Inspector/Management Planner (contingent from 2/5/88).
- Inspector/Management Planner (full from 2/15/88).
- Inspector/Management Planner Refresher Course (contingent from 10/18/89).
- (78)(a) *Training Provider:* University of Kentucky, College of Engineering Continuing Education.
Address: 305 Slone Bldg., Lexington, KY 40506-0053, Contact: A.B. Broderson, Phone: (606) 257-4300.
- (b) *Approved Courses:*
- Abatement Worker Refresher Course (contingent from 3/30/89).
- Contractor/Supervisor Refresher Course (contingent from 5/24/89).
- Inspector Refresher Course (contingent from 3/3/89).
- Inspector/Management Planner (full from 2/15/88).
- (79)(a) *Training Provider:* University of North Carolina Occupational Safety & Health Educational Resource Center.
Address: 109 Conner Dr., Suite 1101, Chapel Hill, NC 27514, Contact: Ted Williams, Phone: (919) 962-2101.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 12/11/89).
- Contractor/Supervisor (contingent from 6/1/88).
- Contractor/Supervisor (full from 6/6/88).
- Contractor/Supervisor Refresher Course (contingent from 6/7/89).
- Inspector/Management Planner (contingent from 11/9/87).
- Inspector/Management Planner (full from 11/9/87).
- Inspector/Management Planner Refresher Course (contingent from 12/15/88).
- Project Designer (contingent from 5/2/89).
- Project Designer Refresher Course (contingent from 6/22/89).
- (80)(a) *Training Provider:* University of North Florida Division of Continuing Education & Extension Environmental Ed. & Safety Institute.
Address: 4567 St. Johns Bluff Rd., South Jacksonville, FL 32216, Contact: Herbert E. Carter, Phone: (904) 646-2502.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 9/1/89).
- Contractor/Supervisor (contingent from 9/1/89).
- Inspector/Management Planner (contingent from 9/1/89).
- (81)(a) *Training Provider:* University of South Carolina School of Public Health c/o Azimuth Inc.
Address: 9229 University Blvd., Charleston, SC 29418, Contact: Betty Schnee, Phone: (803) 553-9456.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 6/9/89).
- Abatement Worker (full from 12/7/89).
- Contractor/Supervisor (contingent from 5/5/89).
- Contractor/Supervisor (full from 8/21/89).
- Contractor/Supervisor Refresher Course (contingent from 5/24/89).
- Contractor/Supervisor Refresher Course (full from 9/20/89).
- (82)(a) *Training Provider:* University of South Carolina Medical MUSC Dept. of Environmental Health.
Address: 171 Ashley Ave., Charleston, SC 29425, Contact: Jan Temple, Phone: (803) 792-5315.
- (b) *Approved Courses:*
- Abatement Worker (full from 12/19/88).
- Abatement Worker Refresher Course (contingent from 2/2/89).
- Contractor/Supervisor Refresher Course (contingent from 2/2/89).
- Contractor/Supervisor Refresher Course (full from 5/3/89).
- Inspector/Management Planner Refresher Course (contingent from 2/2/89).
- Inspector/Management Planner Refresher Course (full from 5/2/89).
- (83)(a) *Training Provider:* WESTON, Inc.
Address: 1635 Pumphrey Ave., Auburn, AL 36830-4303, Contact: Ronald Thompson, Phone: (205) 826-6100.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 6/13/88).
- Contractor/Supervisor (contingent from 10/13/88).
- Contractor/Supervisor (full from 5/15/89).
- Contractor/Supervisor Refresher Course (contingent from 1/31/89).
- Contractor/Supervisor Refresher Course (full from 9/25/89).
- Inspector/Management Planner (contingent from 5/13/88).
- Inspector/Management Planner (full from 9/27/89).
- Inspector/Management Planner Refresher Course (contingent from 12/15/88).
- Project Designer (contingent from 8/23/88).
- Project Designer Refresher Course (contingent from 1/31/89).
- Project Designer Refresher Course (full from 9/26/89).
- (84)(a) *Training Provider:* Westinghouse Environmental Geotechnical Services, Inc.
Address: 3100 Spring Forest Rd., Suite 118, P.O. Box 58069, Raleigh, NC 27858-8069, Contact: James R. Penland, Phone: (919) 872-2660.
- (b) *Approved Courses:*

Abatement Worker (contingent from 3/8/89).

Contractor/Supervisor (contingent from 7/18/89).

(85)(a) *Training Provider:* Williams & Associates, Inc. Environmental Training Center.

Address: 460 Tennessee St., Memphis, TN 38103, Contact: Ruth Williams, Phone: (901) 521-9030.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/18/88).

Abatement Worker (full from 4/18/88).
Abatement Worker Refresher Course (contingent from 5/1/89).

Contractor/Supervisor (contingent from 2/18/88).

Contractor/Supervisor (full from 4/18/88).

Contractor/Supervisor Refresher Course (contingent from 5/1/89).

EPA-Approved Training Courses

REGION V—Chicago, IL

Regional Asbestos Coordinator:

Anthony Restaino, EPA, Region V, 230 S. Dearborn St., (5-SPT-7), Chicago, IL 60604. (312) 886-6003, (FTS) 886-6003.

List of Approved Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region V training courses and contact points for each, are as follows:

(1)(a) *Training Provider:* Abatement Training Institute, Inc.

Address: P.O. Box 26835, Columbus, OH 43226-0835, Contact: Steven Ritchie, Phone: (614) 267-0908.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/1/88).

Abatement Worker Refresher Course (contingent from 4/25/89).

(2)(a) *Training Provider:* Advanced Mechanical Insulation, Inc.

Address: 205 West Randolph St., Suite 1050, Chicago, IL 60606, Contact: Jeffery M. Bertrand, Phone: (312) 704-9494.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/2/89).

Contractor/Supervisor (contingent from 3/2/89).

(3)(a) *Training Provider:* Affiliated Environmental Services, Inc.

Address: 3606 Venice Rd., Sandusky, OH 44870, Contact: Jack Dauch, Phone: (419) 627-1976.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/14/88).

Abatement Worker (full from 10/24/88).

Abatement Worker Refresher Course (contingent from 2/2/89).

Contractor/Supervisor (contingent from 12/29/88).

Contractor/Supervisor (full from 2/27/89).

Contractor/Supervisor Refresher Course (contingent from 2/2/89).

Inspector/Management Planner (contingent from 5/30/89).

(4)(a) *Training Provider:* Alderink & Associates, Inc.

Address: 3221 Three Mile Rd., NW, Grand Rapids, MI 49504, Contact: Deborah C. Alderink, Phone: (616) 791-0730.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/15/88).

Abatement Worker (full from 9/6/88).

Abatement Worker Refresher Course (contingent from 9/1/88).

Abatement Worker Refresher Course (full from 9/6/88).

Contractor/Supervisor (contingent from 7/15/88).

Contractor/Supervisor (full from 9/19/88).

Contractor/Supervisor Refresher Course (contingent from 12/1/88).

(5)(a) *Training Provider:* American Asbestos Institute, Inc. (Formerly Illinois Asbestos Council).

Address: Box 7416, Springfield, IL 62791, Contact: Douglas I. Gamble, Phone: (217) 523-5588.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/29/89).

Abatement Worker (full from 8/14/89).

Abatement Worker Refresher Course (contingent from 8/31/89).

Contractor/Supervisor (contingent from 3/29/89).

Contractor/Supervisor (full from 8/14/89).

Contractor/Supervisor Refresher Course (contingent from 9/11/89).

Inspector/Management Planner (contingent from 3/29/89).

Inspector/Management Planner Refresher Course (contingent from 9/11/89).

Project Designer Refresher Course (contingent from 9/19/89).

(6)(a) *Training Provider:* American Environmental Institute.

Address: Main Campus, Plaza West, Cleveland, OH 44116, Contact: Gary P. Block, Phone: (216) 333-6225.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/15/88).

Abatement Worker Refresher Course (contingent from 12/8/88).

Contractor/Supervisor (contingent from 9/1/88).

Contractor/Supervisor Refresher Course (contingent from 12/6/88).

Inspector/Management Planner (contingent from 11/14/88).

(7)(a) *Training Provider:* American Industrial Hygiene Association.

Address: 475 Wolf Ledges Pkwy., Akron, OH 44311-1087, Contact: Mary Christ, Phone: (216) 762-7294.

(b) *Approved Course:*

Contractor/Supervisor (contingent from 2/23/89).

(8)(a) *Training Provider:* Applied Environmental Sciences, Inc.

Address: Minneapolis Business & Technology, Center, 511 11th Ave. S, Minneapolis, MN 55415, Contact: Franklin H. Dickson, Phone: (612) 339-5559.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/30/88).

Abatement Worker Refresher Course (contingent from 3/16/89).

Contractor/Supervisor (contingent from 2/7/89).

Contractor/Supervisor Refresher Course (contingent from 3/16/89).

Inspector/Management Planner (contingent from 10/17/89).

Inspector/Management Planner Refresher Course (contingent from 10/16/89).

(9)(a) *Training Provider:* Aries Environmental Services, Ltd.

Address: 1550 Hubbard, Batavia, IL 60510, Contact: Dennis Cesarotti, Phone: (312) 879-3006.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/13/88).

Abatement Worker Refresher Course (contingent from 1/18/89).

(10)(a) *Training Provider:* Asbestech, Inc.

Address: 326 Front St., Marietta, OH 45750, Contact: Phillip Lee, Phone: (614) 373-0714.

(b) *Approved Course:*

Abatement Worker (contingent from 11/9/89).

(11)(a) *Training Provider:* Asbestos Abatement, Inc.

Address: 2420 N. Grand River, Lansing, MI 48906, Contact: Shawn O'Callaghan, Phone: (517) 323-0053.

(b) *Approved Course:*

Abatement Worker (contingent from 7/6/88).

- (12)(a) *Training Provider:* Asbestos Consulting Group, Inc.
Address: P.O. Box 3157, La Crosse, WI 54602-3157, Contact: Larry Lienau, Phone: (608) 782-1670.
- (b) *Approved Courses:*
Contractor/Supervisor (contingent from 7/12/88).
Inspector/Management Planner (contingent from 10/14/88).
- (13)(a) *Training Provider:* Asbestos Management, Inc.
Address: 36700 South Huron, Suite 104, New Boston, MI 48164, Contact: LaDonna Slifco, Phone: (313) 961-6135.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/12/88).
Abatement Worker Refresher Course (contingent from 1/4/89).
Contractor/Supervisor (contingent from 8/18/87).
Inspector/Management Planner (contingent from 1/26/88).
Inspector/Management Planner (full from 2/1/88).
Inspector/Management Planner Refresher Course (contingent from 11/14/88).
- (14)(a) *Training Provider:* Asbestos Professional Services, Inc.
Address: 501 North Second St., Breese, IL 62230, Contact: Donald T. Anderson, Phone: (618) 526-2742.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/13/89).
Abatement Worker Refresher Course (contingent from 10/9/89).
Contractor/Supervisor (contingent from 10/13/89).
Contractor/Supervisor Refresher Course (contingent from 10/9/89).
- (15)(a) *Training Provider:* Asbestos Removal Inc.
Address: Waterworks Rd., P.O. Box 522, Wabash, IN 46992, Contact: Karen S. Eckman, Phone: (219) 563-2407.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/18/89).
Abatement Worker Refresher Course (contingent from 12/20/89).
- (16)(a) *Training Provider:* Asbestos Roofing Technology, Inc.
Address: P.O. Box 211, Lyons, IL 60534, Contact: Jay E. Refieuna, Phone: (312) 352-0400.
- (b) *Approved Course:*
Abatement Worker (contingent from 4/13/89).
- (17)(a) *Training Provider:* Asbestos Services, Inc.
Address: P.O. Box 141, Baroda, MI 49101, Contact: Dennis W. Calkins, Phone: (616) 422-2174.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/12/88).
Abatement Worker Refresher Course (contingent from 3/17/89).
Contractor/Supervisor (contingent from 8/12/88).
Contractor/Supervisor Refresher Course (contingent from 3/17/89).
- (18)(a) *Training Provider:* Asbestos Technology & Training, Inc.
Address: 1186 Summit Ave., St. Paul, MN 55105, Contact: James D. Risimini, Phone: (612) 290-0342.
- (b) *Approved Courses:*
Abatement Worker (contingent from 7/27/88).
Abatement Worker Refresher Course (contingent from 2/7/89).
Contractor/Supervisor (contingent from 7/27/88).
Contractor/Supervisor Refresher Course (contingent from 2/7/89).
Inspector/Management Planner (contingent from 7/27/88).
Inspector/Management Planner Refresher Course (contingent from 2/7/89).
- (19)(a) *Training Provider:* Asbestos Training & Employment, Inc. (ATEI).
Address: 809 East 11th St., Michigan City, IN 46360, Contact: Tom Dwyer, Phone: (219) 874-7348.
- (b) *Approved Courses:*
Abatement Worker (contingent from 1/15/88).
Abatement Worker (full from 5/18/88).
Abatement Worker Refresher Course (contingent from 12/11/88).
Contractor/Supervisor (contingent from 1/19/88).
Contractor/Supervisor (full from 6/20/88).
Contractor/Supervisor Refresher Course (contingent from 12/11/88).
Inspector/Management Planner (contingent from 5/13/88).
Inspector/Management Planner Refresher Course (contingent from 12/11/88).
- (20)(a) *Training Provider:* Asbestos Workers Council.
Address: 1216 East McMillan St., Room 107, Cincinnati, OH 45206, Contact: Richard Black, Phone: (513) 221-5969.
- (b) *Approved Course:*
Abatement Worker (contingent from 10/31/88).
- (21)(a) *Training Provider:* Astesco Laboratory, Inc.
Address: P.O. Box 517, Cloverdale, IN 46120, Contact: Donald R. Allen, Phone: (317) 795-4724.
- (b) *Approved Courses:*
Abatement Worker (full from 10/31/88).
- Abatement Worker Refresher Course (contingent from 2/7/89).
Contractor/Supervisor (contingent from 2/23/89).
Contractor/Supervisor Refresher Course (contingent from 2/23/89).
- (22)(a) *Training Provider:* BDN Industrial Hygiene Consultants.
Address: 8105 Valleywood Lane, Portage, MI 49002, Contact: Keith Nichols, Phone: (616) 329-1237.
- (b) *Approved Courses:*
Abatement Worker (contingent from 3/1/88).
Contractor/Supervisor (contingent from 10/1/87).
Contractor/Supervisor Refresher Course (contingent from 9/15/88).
Inspector/Management Planner (contingent from 1/15/88).
Inspector/Management Planner (full from 2/15/88).
- (23)(a) *Training Provider:* Baker Midwest, Maple Grove, Minnesota.
Address: 10650 State Highway 152, Suite 112, Maple Grove, MN 55369, Contact: Joseph Reeves, Phone: (612) 493-2595.
- (b) *Approved Courses:*
Abatement Worker (contingent from 6/15/89).
Contractor/Supervisor (contingent from 6/15/89).
- (24)(a) *Training Provider:* Ball State University.
Address: College of Sciences & Humanities, Department of Natural Resources, Muncie, IN 47306, Contact: Thad Godish, Phone: (317) 285-5780.
- (b) *Approved Course:*
Inspector/Management Planner (contingent from 3/30/89).
- (25)(a) *Training Provider:* Bems Engineering, Inc.
Address: 18600 Northville Rd., Suite 200, Northville, MI 48167, Contact: Eugene L. Kunz, Phone: (313) 348-9167.
- (b) *Approved Courses:*
Contractor/Supervisor (contingent from 12/29/88).
Contractor/Supervisor Refresher Course (contingent from 12/29/88).
Inspector (contingent from 1/18/89).
Inspector/Management Planner Refresher Course (contingent from 1/4/89).
Project Designer (contingent from 3/2/89).
- (26)(a) *Training Provider:* Bierlein Demolition Contractors, Inc.
Address: 2903 South Graham Rd., Saginaw, MI 48608-8078, Contact: Harry T. Dryer, Jr., Phone: (517) 781-1810.
- (b) *Approved Courses:*

Abatement Worker (contingent from 2/7/89).

Contractor/Supervisor (contingent from 2/7/89).

(27)(a) *Training Provider:* Boelter Associates, Inc.

Address: 8700 W Bryn Mawr Ave., South Tower, Suite 401, Chicago, IL 60631, Contact: Philip Ramos, Phone: (312) 380-1070.

(b) *Approved Course:*

Contractor/Supervisor Refresher Course (contingent from 5/22/89).

(28)(a) *Training Provider:* Bonne Terre Training Services.

Address: P.O. Box 673, Tiffin, OH 44863, Contact: Timothy E. Blott, Phone: (419) 447-5091.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/13/89).

Abatement Worker Refresher Course (contingent from 10/12/89).

(29)(a) *Training Provider:* Bowling Green State University Environmental Health Program.

Address: 102 Health Center, Bowling Green, OH 43403-0280, Contact: Gary S. Silverman, Phone: (419) 372-7774.

(b) *Approved Course:*

Abatement Worker (contingent from 4/21/89).

(30)(a) *Training Provider:* Carnow, Conibear & Associates, Ltd.

Address: 333 West Wacker Dr., Suite 1400, Chicago, IL 60606, Contact: Victoria Musselman, Phone: (312) 782-4488.

(b) *Approved Course:*

Abatement Worker (full from 2/29/88).

(31)(a) *Training Provider:* Centin Corp.

Address: 6601 North Interchange Rd., Evansville, IN 47715, Contact: Dan Sanders, Phone: (812) 474-8220.

(b) *Approved Course:*

Abatement Worker (contingent from 3/30/89).

(32)(a) *Training Provider:* Charles J. Ogg and Associates.

Address: P.O. Box 815, Newburgh, IN 47629-0815, Contact: Charles J. Ogg, Phone: (812) 853-7607.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/29/88).

Contractor/Supervisor (contingent from 5/1/89).

(33)(a) *Training Provider:* Clayton Environmental Consultants, Inc.

Address: 22345 Roethel Dr., Novi, MI 48050, Contact: Michael Coffman, Phone: (313) 344-1770.

(b) *Approved Courses:*

Inspector/Management Planner

(contingent from 1/26/88).

Inspector/Management Planner (full from 2/16/88).

Inspector/Management Planner

Refresher Course (contingent from 1/26/89).

(34)(a) *Training Provider:* Cleveland Environmental Services, Inc.

Address: P.O. Box 14643, Cincinnati, OH 45214, Contact: Eugene B. Rose, Phone: (513) 921-4143.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/18/89).

Contractor/Supervisor (contingent from 4/21/89).

(35)(a) *Training Provider:* Cleveland Wrecking Co.

Address: 1400 Harrison Ave., P.O. Box 145530, Cincinnati, OH 45214, Contact: Eugene B. Rose, Phone: (513) 921-1160.

(b) *Approved Courses:*

Abatement Worker (contingent from 8/3/89).

Abatement Worker Refresher Course (contingent from 8/3/89).

Contractor/Supervisor (contingent from 8/3/89).

Contractor/Supervisor Refresher Course (contingent from 8/3/89).

(36)(a) *Training Provider:* Columbus Paraprofessional Institute Battelle Columbus Division.

Address: 505 King Ave., Columbus, OH 43201-2693, Contact: John Simpkins, Phone: (614) 424-6424.

(b) *Approved Courses:*

Inspector/Management Planner (contingent from 4/4/88).

Inspector/Management Planner (full from 4/11/88).

Inspector/Management Planner Refresher Course (contingent from 11/30/88).

(37)(a) *Training Provider:*

Construction & General Laborers Training Trust Fund.

Address: 400 East Ogden Ave., Westmont, IL 60559, Contact: Anthony Solano, Phone: (312) 323-8999.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/16/88).

Abatement Worker (full from 1/23/89).

Abatement Worker Refresher Course (contingent from 12/1/88).

Abatement Worker Refresher Course (full from 12/12/89).

Contractor/Supervisor (contingent from 9/22/89).

(38)(a) *Training Provider:*

Construction Laborer Local Union No. 496.

Address: 5945 North Ridge Rd., P.O. Box 190, Madison, OH 44057, Contact: Floyd Conrad, Phone: (216) 428-7177.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/25/89).

Abatement Worker Refresher Course (contingent from 12/1/89).

Contractor/Supervisor (contingent from 10/25/89).

Contractor/Supervisor Refresher Course (contingent from 12/1/89).

Inspector (contingent from 10/25/89).

Inspector Refresher Course (contingent from 12/1/89).

(39)(a) *Training Provider:* D/E 3.

Address: 7471-H Tyler Blvd., Mentor, OH 44060, Contact: Harold N. Danto, Phone: (216) 942-4800.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/7/88).

Abatement Worker Refresher Course (contingent from 1/4/89).

(40)(a) *Training Provider:* D/E 3.

Address: 19701 South Miles Pkwy., N-12, Warrensville, OH 44128, Contact: Harold Danto, Phone: (216) 663-1500.

(b) *Approved Courses:*

Contractor/Supervisor (contingent from 9/1/89).

Contractor/Supervisor Refresher Course (contingent from 10/10/89).

(41)(a) *Training Provider:* Daniel J. Hartwig Associates, Inc.

Address: P.O. Box 31, Oregon, WI 53575-0031, Contact: Alice J. Seeliger, Phone: (608) 835-5781.

(b) *Approved Courses:*

Abatement Worker (full from 10/18/88).

Abatement Worker Refresher Course (contingent from 4/25/89).

Contractor/Supervisor (contingent from 4/11/89).

Contractor/Supervisor Refresher Course (contingent from 4/25/89).

Inspector/Management Planner (contingent from 2/9/88).

Inspector/Management Planner (full from 4/18/88).

Inspector/Management Planner Refresher Course (contingent from 2/23/89).

(42)(a) *Training Provider:* Darla Environmental, Inc.

Address: 1220 Richards St., Suite H, Joliet, IL 60433-2758, Contact: Salvador Garcia, Phone: (815) 722-5561.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/7/88).

Contractor/Supervisor (contingent from 10/7/88).

- (43)(a) *Training Provider:* DeLisle Associates, Ltd.
Address: 6946 East North Ave., Kalamazoo, MI 49001, Contact: Mark A. DeLisle, Phone: (616) 385-1018.
- (b) *Approved Courses:*
Abatement Worker (contingent from 9/1/88).
Abatement Worker (full from 1/23/89).
Contractor/Supervisor (contingent from 10/5/87).
Contractor/Supervisor (full from 10/20/87).
Contractor/Supervisor Refresher Course (contingent from 9/1/88).
Inspector/Management Planner (contingent from 12/22/87).
Inspector/Management Planner (full from 1/27/88).
Inspector/Management Planner Refresher Course (contingent from 2/23/89).
- (44)(a) *Training Provider:* Dore & Associates Contracting, Inc.
Address: 900 Harry S. Truman Pkwy., P.O. Box 146, Bay City, MI 48707, Contact: Joseph Goldring, Phone: (517) 684-8358.
- (b) *Approved Courses:*
Abatement Worker (contingent from 7/6/88).
Abatement Worker (full from 7/25/88).
Abatement Worker Refresher Course (contingent from 10/31/88).
Contractor/Supervisor (contingent from 10/31/88).
Contractor/Supervisor Refresher Course (contingent from 3/29/89).
- (45)(a) *Training Provider:* Ecological Services, Inc.
Address: 107 Clay St., Tiffin, OH 44880-0715, Contact: Harish N. Pandhi, Phone: (419) 447-2514.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/1/88).
Abatement Worker Refresher Course (contingent from 3/7/89).
- (46)(a) *Training Provider:* Emscoa-Emergency Medical Service Consultants of America.
Address: 12125 South 90th Ave., Palos Park, IL 60464, Contact: Fred Debow, Phone: (708) 448-7500.
- (b) *Approved Courses:*
Abatement Worker (contingent from 11/3/89).
Abatement Worker Refresher Course (contingent from 12/20/89).
Contractor/Supervisor (contingent from 11/3/89).
Contractor/Supervisor Refresher Course (contingent from 12/20/89).
- (47)(a) *Training Provider:* Environment Technology of Fort Wayne, Inc.
Address: 9208 Hessen Cassel Rd., Fort Wayne, IN 46816, Contact: Randy C. Aumsbaugh, Phone: (219) 447-3141.
- (b) *Approved Courses:*
Abatement Worker (contingent from 4/5/89).
Abatement Worker Refresher Course (contingent from 4/7/89).
- (48)(a) *Training Provider:* Environmental & Occupational Consulting & Training, Inc.
Address: 3410 East Cork St., Kalamazoo, MI 49001, Contact: A. Clark Kahn, Phone: (616) 388-8099.
- (b) *Approved Courses:*
Abatement Worker (contingent from 3/1/89).
Abatement Worker Refresher Course (contingent from 3/7/89).
Contractor/Supervisor (contingent from 3/1/89).
Contractor/Supervisor Refresher Course (contingent from 3/7/89).
- (49)(a) *Training Provider:* Environmental Abatement Systems, Inc.
Address: 6416 Ellsworth, Detroit, MI 48238, Contact: Farrell Davis, Phone: (313) 345-3154.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/12/88).
Contractor/Supervisor (contingent from 8/12/88).
- (50)(a) *Training Provider:* Environmental Diversified Services, Inc.
Address: 24356 Sherwood, Center Line, MI 48015-1061, Contact: Michael D. Berg, Phone: (313) 757-4800.
- (b) *Approved Courses:*
Abatement Worker (contingent from 3/30/89).
Abatement Worker Refresher Course (contingent from 4/14/89).
Contractor/Supervisor (contingent from 3/30/89).
Contractor/Supervisor Refresher Course (contingent from 4/11/89).
- (51)(a) *Training Provider:* Environmental Management Consultants, Inc.
Address: 5201 Middle Mt. Vernon Rd., Evansville, IN 47712, Contact: Barbara S. Kramer, Phone: (812) 424-7768.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/13/89).
Abatement Worker (full from 12/13/89).
Contractor/Supervisor (contingent from 3/9/89).
Contractor/Supervisor (full from 12/13/89).
- (52)(a) *Training Provider:* Environmental Professionals, Inc.
Address: 1405 Newton St., Tallmadge, OH 44278, Contact: Edward C. Bruner, Phone: (216) 633-4435.
- (b) *Approved Courses:*
Contractor/Supervisor (contingent from 2/2/88).
Contractor/Supervisor Refresher Course (contingent from 1/26/89).
- (53)(a) *Training Provider:* Environmental Rehab, Inc.
Address: 700 Coronis Cir., Green Bay, WI 54304, Contact: Randy LaCrosse, Phone: (414) 337-0650.
- (b) *Approved Courses:*
Abatement Worker (contingent from 1/4/89).
Abatement Worker (full from 3/29/89).
Abatement Worker Refresher Course (contingent from 10/13/89).
- (54)(a) *Training Provider:* Environmental Response Systems, Inc.
Address: 5319 Broadway Ave., Cleveland, OH 44127, Contact: Paul J. Stroud, Jr., Phone: (216) 883-1152.
- (b) *Approved Course:*
Contractor/Supervisor (contingent from 12/29/88).
- (55)(a) *Training Provider:* Environmental Safety Training Services, Inc.
Address: 11802 Hanson Rd., Algonquin, IL 60102, Contact: Robert Sayre, Phone: (217) 525-6161.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/1/88).
Abatement Worker Refresher Course (contingent from 1/17/89).
- (56)(a) *Training Provider:* Environmental Technologies Co. (Formerly Lee Environmental Services, Inc.).
Address: 2727 Second Ave., Detroit, MI 48201, Contact: David W. McDowell, Phone: (313) 961-4230.
- (b) *Approved Course:*
Abatement Worker (contingent from 3/17/89).
- (57)(a) *Training Provider:* Environmental Training Institute.
Address: 4708 Angold Rd., Toledo, OH 43615, Contact: Dale Bruhl, Jr., Phone: (419) 382-9200.
- (b) *Approved Courses:*
Abatement Worker (contingent from 1/10/89).
Abatement Worker Refresher Course (contingent from 10/5/89).
- (58)(a) *Training Provider:* Envirplus, Inc.
Address: 600 Hartrey Ave., Suite 203 A, Evanston, IL 60202, Contact: Salvador Garcia, Phone: (312) 475-0022.
- (b) *Approved Course:*
Contractor/Supervisor (contingent from 8/31/89).

- (59)(a) *Training Provider:* Escor, Inc.
Address: 540 Frontage Rd., Suite 211,
Northfield, IL 60093, Contact: R. Eric
Zimmerman, Phone: (312) 501-2190.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/
12/88).
Abatement Worker Refresher Course
(contingent from 9/15/88).
Contractor/Supervisor (contingent from
8/12/88).
Contractor/Supervisor Refresher Course
(contingent from 9/15/88).
Inspector/Management Planner
(contingent from 8/12/88).
Inspector/Management Planner
Refresher Course (contingent from 9/
1/88).
- (60)(a) *Training Provider:* Foley
Occupational Health Consulting,
Address: 2400 North Reynolds Rd.,
Toledo, OH 43615, Contact: E.D. Foley,
Jr., Phone: (419) 531-7191.
- (b) *Approved Courses:*
Contractor/Supervisor (contingent from
2/4/88).
Contractor/Supervisor Refresher Course
(contingent from 1/4/89).
- (61)(a) *Training Provider:* G & H
Contracting Associates, Ltd.
Address: 300 Acorn St., P.O. Box 49080,
Plainwell, MI 49080, Contact: Jeffrey
C. Gren, Phone: (616) 685-1606.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/
7/86).
Abatement Worker (full from 11/7/88).
Contractor/Supervisor (contingent from
4/21/89).
- (62)(a) *Training Provider:* Gandee &
Associates, Inc.
Address: 4488 Mobile Dr., Columbus,
OH 43220, Contact: Kurt Varga, Phone:
(614) 459-8338.
- (b) *Approved Courses:*
Abatement Worker (full from 1/17/89).
Abatement Worker Refresher Course
(contingent from 8/17/89).
Contractor/Supervisor (contingent from
6/1/88).
Contractor/Supervisor (full from 8/29/
88).
Contractor/Supervisor Refresher Course
(contingent from 7/26/89).
Inspector/Management Planner
(contingent from 3/3/89).
Inspector/Management Planner
Refresher Course (contingent from 8/
2/89).
- (63)(a) *Training Provider:* Hazard
Management Group, Inc.
Address: P.O. Box 627, Ashtabula, OH
44004, Contact: Gabriel Demshar, Jr.,
Phone: (216) 992-1122.
- (b) *Approved Courses:*
Abatement Worker (contingent from 1/
4/89).
Contractor/Supervisor (contingent from
1/4/89).
(64)(a) *Training Provider:* Hazardous
Materials Institute, Inc.
Address: 1550 Old Henderson Rd., Suite
N-232, Columbus, OH 43222, Contact:
Al Wilson, Phone: (614) 459-1105.
- (b) *Approved Courses:*
Abatement Worker (contingent from 8/
12/88).
Abatement Worker Refresher Course
(contingent from 9/15/88).
Contractor/Supervisor (contingent from
8/12/88).
Contractor/Supervisor Refresher Course
(contingent from 9/15/88).
Inspector/Management Planner
(contingent from 8/3/88).
Inspector/Management Planner
Refresher Course (contingent from 9/
15/88).
Project Designer (contingent from 10/14/
88).
- (65)(a) *Training Provider:* Heat & Frost
Insulators & Asbestos Workers Local
Union No. 17 Apprentice Training
Center.
Address: 3850 South Racine Ave.,
Chicago, IL 60609, Contact: John P.
Shine, Phone: (312) 247-1007.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/
2/87).
Abatement Worker (full from 11/8/87).
Abatement Worker Refresher Course
(contingent from 10/14/88).
Contractor/Supervisor (contingent from
3/21/88).
Contractor/Supervisor (full from 3/22/
88).
Contractor/Supervisor Refresher Course
(contingent from 12/1/88).
- (66)(a) *Training Provider:* Heat & Frost
Insulators & Asbestos Workers Local
Union No. 34.
Address: 708 South 10th St.,
Minneapolis, MN 55404, Contact: Lee
Houske, Phone: (612) 332-3216.
- (b) *Approved Courses:*
Abatement Worker (full from 11/8/86).
Contractor/Supervisor (full from 11/8/
88).
- (67)(a) *Training Provider:* Helix
Environmental, Inc.
Address: 416 Triangle, Dayton, OH
45419, Contact: Ralph Froehlich,
Phone: (513) 298-2990.
- (b) *Approved Courses:*
Abatement Worker (contingent from 11/
1/89).
Contractor/Supervisor (contingent from
11/1/89).
Contractor/Supervisor Refresher Course
(contingent from 12/19/89).
- Inspector/Management Planner
(contingent from 11/1/89).
Inspector/Management Planner
Refresher Course (contingent from 12/
20/89).
- (68)(a) *Training Provider:* I.P.C. of
Chicago.
Address: 4309 West Henderson,
Chicago, IL 60641, Contact: Robert G.
Cooley, Phone: (312) 718-7395.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/
5/87).
Abatement Worker (full from 8/8/88).
Contractor/Supervisor (contingent from
2/7/89).
Contractor/Supervisor Refresher Course
(contingent from 2/7/89).
Inspector/Management Planner
Refresher Course (contingent from 2/
7/89).
- (69)(a) *Training Provider:* Illinois
Environmental Institute.
Address: 8425 West 95th St., Hickory
Hills, IL 60457, Contact: William T.
Giova, Phone: (312) 839-9000.
- (b) *Approved Course:*
Abatement Worker (contingent from 3/
3/89).
- (70)(a) *Training Provider:* Illinois
Laborers' & Contractors Training
Program.
Address: R.R. 3, Mount Sterling, IL
62353, Contact: Tony Romolo, Phone:
(217) 773-2741.
- (b) *Approved Courses:*
Abatement Worker (full from 12/15/85).
Abatement Worker Refresher Course
(contingent from 9/1/88).
Abatement Worker Refresher Course
(full from 12/13/89).
Contractor/Supervisor (contingent from
2/9/88).
Contractor/Supervisor (full from 3/14/
88).
Contractor/Supervisor Refresher Course
(contingent from 2/27/89).
- (71)(a) *Training Provider:* Ilse
Engineering, Inc.
Address: 7177 Arrowhead Rd., Duluth,
MN 55811, Contact: John F. Ilse,
Phone: (218) 729-6858.
- (b) *Approved Courses:*
Abatement Worker (contingent from 12/
15/88).
Contractor/Supervisor Refresher Course
(contingent from 4/11/89).
- (72)(a) *Training Provider:* Indiana
Laborers Training Trust Fund.
Address: P.O. Box 758, Bedford, IN
47421, Contact: Richard Passino,
Phone: (812) 279-9751.
- (b) *Approved Courses:*

- Abatement Worker (contingent from 12/11/87).
- Abatement Worker (full from 2/22/88).
- Abatement Worker Refresher Course (contingent from 10/7/88).
- Contractor/Supervisor (contingent from 6/2/88).
- Contractor/Supervisor (full from 8/15/88).
- Contractor/Supervisor Refresher Course (contingent from 6/14/89).
- (73)(a) *Training Provider:* Indianapolis Center for Advanced Research, Inc. Address: 611 North Capitol Ave., Indianapolis, IN 46204, Contact: William Beranek, Jr., Phone: (317) 262-5027.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 9/13/88).
- Abatement Worker (full from 1/10/89).
- Abatement Worker Refresher Course (contingent from 12/27/88).
- Contractor/Supervisor (contingent from 9/15/88).
- Contractor/Supervisor (full from 1/10/89).
- Contractor/Supervisor Refresher Course (contingent from 12/27/88).
- Inspector/Management Planner (contingent from 5/9/88).
- Inspector/Management Planner (full from 6/6/88).
- Inspector/Management Planner Refresher Course (contingent from 12/6/88).
- (74)(a) *Training Provider:* Industrial Environmental Consultants. Address: 2875 Northwind, Suite 113, East Lansing, MI 48823, Contact: James C. Fox, Phone: (517) 332-7026.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 5/9/88).
- Abatement Worker (full from 1/23/89).
- Abatement Worker Refresher Course (contingent from 1/18/89).
- Contractor/Supervisor (contingent from 8/3/88).
- Contractor/Supervisor (full from 1/23/89).
- Contractor/Supervisor Refresher Course (contingent from 12/5/88).
- Inspector/Management Planner (contingent from 3/1/88).
- (75)(a) *Training Provider:* Institute for Environmental Assessment. Address: 2829 Verndale Ave., Anoka, MN 55303, Contact: Bill Sloan, Phone: (612) 427-5310.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 8/12/88).
- Contractor/Supervisor (contingent from 8/12/88).
- Inspector Refresher Course (contingent from 2/23/89).
- (76)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 19. Address: 9401 West Beloit Rd., No. 209, Milwaukee, WI 53227, Contact: Randall Gottsacker, Phone: (414) 321-2828.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 12/29/88).
- Abatement Worker (full from 5/15/89).
- Abatement Worker Refresher Course (contingent from 1/26/89).
- Contractor/Supervisor (contingent from 12/29/88).
- Contractor/Supervisor Refresher Course (contingent from 1/26/89).
- (77)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 34. Address: 708 South 10th St., Minneapolis, MN 55404, Contact: Lee A. Houske, Phone: (612) 332-3216.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 8/8/88).
- Contractor/Supervisor (contingent from 9/1/88).
- (78)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers, Local Union No. 127. Address: 2787 Pamela Dr., Green Bay, WI 54302, Contact: Michael A. Simons, Phone: (414) 468-5973.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 1/18/89).
- Abatement Worker Refresher Course (contingent from 1/18/89).
- Contractor/Supervisor (contingent from 1/18/89).
- (79)(a) *Training Provider:* JWP Enterprises, Ltd. Address: 122 Water St., Baraboo, WI 53913, Contact: Stephen P. Jandrowski, Phone: (608) 356-2101.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 6/6/89).
- Abatement Worker Refresher Course (contingent from 6/8/89).
- Contractor/Supervisor (contingent from 6/6/89).
- Contractor/Supervisor (full from 12/7/89).
- Contractor/Supervisor Refresher Course (contingent from 6/8/89).
- (80)(a) *Training Provider:* Kemron Environmental Services, Inc. Address: 32740 Northwestern Hwy., Farmington Hills, MI 48018, Contact: Sara A. Bassett, Phone: (313) 626-2426.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 3/2/89).
- Contractor/Supervisor (contingent from 5/13/88).
- Contractor/Supervisor (full from 2/27/89).
- Contractor/Supervisor Refresher Course (contingent from 2/7/89).
- Inspector/Management Planner (contingent from 3/25/88).
- Inspector/Management Planner Refresher Course (contingent from 1/4/89).
- (81)(a) *Training Provider:* Keter Environmental Ltd. Address: 699 Edgewood Ave., Elmhurst, IL 60126, Contact: Philip Pekron, Phone: (312) 941-0201.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 10/27/89).
- Abatement Worker Refresher Course (contingent from 11/28/89).
- Contractor/Supervisor Refresher Course (contingent from 12/20/89).
- (82)(a) *Training Provider:* Lakeland Contractors, Inc. Address: 7615-B St. Clair St., Mentor, OH 44060, Contact: Rex Harris, Phone: (216) 942-0006.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 4/4/89).
- Abatement Worker Refresher Course (contingent from 4/11/89).
- (83)(a) *Training Provider:* Lepi Enterprises, Inc. Address: 917 Main St., Dresden, OH 43821, Contact: James R. Lepi, Phone: (614) 754-1162.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 7/6/88).
- Abatement Worker Refresher Course (contingent from 4/25/89).
- (84)(a) *Training Provider:* Lyle Training Institute. Address: 41 South Grant, Columbus, OH 43215, Contact: Andrea D. Hamblin, Phone: (614) 224-8822.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 10/21/88).
- Contractor/Supervisor (contingent from 3/7/89).
- Inspector/Management Planner (contingent from 6/30/88).
- Inspector/Management Planner Refresher Course (contingent from 3/16/89).
- (85)(a) *Training Provider:* M.K. Moore & Sons, Inc.

Address: 5150 Wagoner-Ford Rd.,
Dayton, OH 45414, Contact: Catherine
C. Buchanan, Phone: (513) 236-1812.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/
31/89).

Abatement Worker Refresher Course
(contingent from 4/7/89).

Contractor/Supervisor (contingent from
3/31/89).

Contractor/Supervisor Refresher Course
(contingent from 4/7/89).

(86)(a) *Training Provider:* MacNeil
Environmental, Inc.

Address: 799 Roosevelt Rd., Building 6,
Glen Ellyn, IL 60137, Contact: James E.
Viskocil, Phone: (312) 858-2092.

(b) *Approved Courses:*

Contractor/Supervisor Refresher Course
(contingent from 7/6/89).

Inspector/Management Planner
Refresher Course (contingent from 7/
6/89).

(87)(a) *Training Provider:* Manage
Right Asbestos Consultants.

Address: 314 West Genesee Ave.,
Saginaw, MI 48602, Contact: Mary
Margaret Brown, Phone: (517) 753-
9290.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/
24/89).

Abatement Worker Refresher Course
(contingent from 4/27/89).

Contractor/Supervisor (contingent from
4/7/89).

(88)(a) *Training Provider:* Mark A.
Kriesemint, Ltd.

Address: P.O. Box 06198, Chicago, IL
60606-0198, Contact: Mark Kriesemint,
Phone: (312) 463-0206.

(b) *Approved Course:*

Abatement Worker (contingent from 10/
31/88).

(89)(a) *Training Provider:* McDowell
Business Training Center.

Address: 1326 S. Michigan Ave., Suite
103, Chicago, IL 60605, Contact:
Edward McDowell, Phone: (312) 427-
2598.

(b) *Approved Course:*

Abatement Worker (contingent from 10/
6/89).

(90)(a) *Training Provider:*
Metropolitan Detroit AFL-CIO Training
Center.

Address: 14333 Prairie, Detroit, MI
48238, Contact: Richard M. King,
Phone: (313) 863-1000.

(b) *Approved Courses:*

Abatement Worker (contingent from 8/
12/88).

Contractor/Supervisor (contingent from
8/12/88).

(91)(a) *Training Provider:* Michigan
Laborers Training Institute.

Address: 11155 South Beardslee Rd.,
Perry, MI 48872, Contact: Edwin H.
McDonald, Phone: (517) 625-4919.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/
9/88).

Abatement Worker (full from 5/2/88).

Abatement Worker Refresher Course
(contingent from 11/14/88).

Contractor/Supervisor (contingent from
4/6/88).

Contractor/Supervisor (full from 5/6/
88).

Contractor/Supervisor Refresher Course
(contingent from 11/14/88).

(92)(a) *Training Provider:* Mid-Central
Illinois District Council of Carpenters.

Address: 910 Brenkman Dr., Pekin, IL
61554, Contact: Mr. Burnett, Phone:
(309) 353-4232.

(b) *Approved Courses:*

Abatement Worker Refresher Course
(contingent from 9/1/89).

Contractor/Supervisor Refresher Course
(contingent from 9/1/89).

(93)(a) *Training Provider:* Midwest
Center for Occupational Health &
Safety.

Address: 640 Jackson St., St. Paul, MN
55101, Contact: Ruth K. McIntyre,
Phone: (612) 221-3992.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/
16/88).

Contractor/Supervisor (full from 11/28/
88).

Contractor/Supervisor Refresher Course
(contingent from 12/1/88).

Inspector/Management Planner
(contingent from 5/9/88).

Inspector/Management Planner (full
from 5/23/88).

Inspector/Management Planner
Refresher Course (contingent from 12/
1/88).

(94)(a) *Training Provider:* Midwest
Health Training.

Address: 3920 Central, Western Springs,
IL 60558, Contact: H.C. Brown, Phone:
(312) 246-9527.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/
25/88).

Abatement Worker (full from 4/25/88).

Abatement Worker Refresher Course
(contingent from 9/15/88).

Contractor/Supervisor (contingent from
2/23/89).

(95)(a) *Training Provider:* Milwaukee
Asbestos Information Center.

Address: 2224 South Kinnickinnic Ave.,
Milwaukee, WI 53207, Contact:
Thomas R. Ortell, Phone: (414) 744-
8100.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/
1/88).

Abatement Worker Refresher Course
(contingent from 2/23/89).

Contractor/Supervisor (contingent from
12/1/88).

Contractor/Supervisor Refresher Course
(contingent from 2/23/89).

Inspector/Management Planner
(contingent from 3/2/89).

Inspector/Management Planner
Refresher Course (contingent from 2/
23/89).

Project Designer (contingent from 9/22/
89).

Project Designer Refresher Course
(contingent from 10/16/89).

(96)(a) *Training Provider:* Moraine
Valley Community College.

Address: 10900 South 88th Ave., Palos
Hills, IL 60465, Contact: Richard
Kukac, Phone: (312) 974-5733.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/
7/89).

Abatement Worker Refresher Course
(contingent from 3/16/89).

Contractor/Supervisor (contingent from
8/12/88).

Contractor/Supervisor Refresher Course
(contingent from 12/6/88).

Inspector/Management Planner (full
from 2/9/88).

Inspector/Management Planner
Refresher Course (contingent from 12/
6/88).

(97)(a) *Training Provider:* National
Asbestos Abatement Corp.

Address: 1198 Robert T. Longway Blvd.,
Flint, MI 48503, Contact: James S.
Sheaffer, Phone: (313) 232-7100.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/
7/89).

Abatement Worker (full from 4/18/89).

(98)(a) *Training Provider:* National
Institute for Abatement Education.

Address: 5501 Williamsburg Way No.
305, Madison, WI 53719, Contact:
Dean Leischow, Phone: (608) 271-7281.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/
15/88).

Contractor/Supervisor (contingent from
7/15/88).

(99)(a) *Training Provider:* Northern
Safety Consultants, Inc.

Address: 1406 Lincoln Ave., Marquette,
MI 49855, Contact: Christopher M.
Baker, Phone: (906) 228-5161.

(b) *Approved Courses:*

Abatement Worker (full from 5/31/88).

- Contractor/Supervisor (full from 5/31/88).
- Contractor/Supervisor Refresher Course (contingent from 10/7/88).
(100)(a) *Training Provider:* Northland Environmental Services, Inc.
Address: P.O. Box 909, Stevens Point, WI 54481, Contact: Bob Voborsky, Phone: (715) 341-9699.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/18/89).
- Abatement Worker Refresher Course (contingent from 1/18/89).
- Contractor/Supervisor (contingent from 1/18/89).
- Contractor/Supervisor Refresher Course (contingent from 1/18/89).
(101)(a) *Training Provider:* Nova Environmental Services.
Address: Suite 420 Hazeltine Gates, 1107 Hazeltine Blvd., Chaska, MN 55318, Contact: Deborah S. Green, Phone: (612) 448-9393.
(b) *Approved Courses:*
- Abatement Worker (contingent from 12/24/87).
- Abatement Worker Refresher Course (contingent from 4/13/89).
- Contractor/Supervisor (contingent from 9/1/88).
- Contractor/Supervisor Refresher Course (contingent from 4/13/89).
(102)(a) *Training Provider:* Nova Environmental, Inc.
Address: 5340 Plymouth Rd., Suite 210, Ann Arbor, MI 48105, Contact: Kary S. Amin, Phone: (313) 930-0995.
(b) *Approved Courses:*
- Abatement Worker (contingent from 5/13/88).
- Abatement Worker (full from 3/27/89).
- Contractor/Supervisor (contingent from 10/7/88).
- Contractor/Supervisor (full from 3/27/89).
- Contractor/Supervisor Refresher Course (contingent from 10/7/88).
- Inspector/Management Planner (contingent from 10/7/88).
- Inspector/Management Planner Refresher Course (contingent from 11/14/88).
(103)(a) *Training Provider:* Ohio Asbestos Workers Council.
Address: 1216 East McMillan St., Room 107, Cincinnati, OH 45206, Contact: Larry Briley, Phone: (513) 221-5969.
(b) *Approved Courses:*
- Contractor/Supervisor (contingent from 2/17/88).
- Contractor/Supervisor (full from 5/12/88).
(104)(a) *Training Provider:* Ohio Laborers Training & Upgrading Trust Fund.
Address: 25721 Coshocton Rd., P.O. Box 218, Howard, OH 43028, Contact: John L. Railing, Phone: (614) 599-7915.
(b) *Approved Courses:*
- Abatement Worker (full from 4/11/88).
- Abatement Worker Refresher Course (contingent from 9/1/88).
- Contractor/Supervisor (contingent from 7/27/88).
- Contractor/Supervisor Refresher Course (contingent from 6/6/89).
(105)(a) *Training Provider:* Olive—Harvey College Skill Center.
Address: 10001 South Woodlawn Ave., Chicago, IL 60628, Contact: Verondo Tucker, Phone: (312) 660-4841.
(b) *Approved Course:*
- Abatement Worker (contingent from 3/6/89).
- (106)(a) *Training Provider:* Peoria Public Schools.
Address: 3202 North Wisconsin Ave., Peoria, IL 61603, Contact: Emil S. Steinseifer, Phone: (309) 672-6512.
(b) *Approved Course:*
- Abatement Worker Refresher Course (contingent from 11/14/88).
(107)(a) *Training Provider:* Professional Asbestos Control Company Inc.
Address: 5739 West Howard St., Niles, IL 60648, Contact: William Foss, Phone: (312) 647-0077.
(b) *Approved Courses:*
- Abatement Worker (contingent from 11/2/89).
- Contractor/Supervisor (contingent from 11/2/89).
(108)(a) *Training Provider:* Professional Asbestos Labor Services, Inc.
Address: 1501 Martin Luther King Dr., Gary, IN 46407, Contact: George Bradley, Phone: (219) 883-8541.
(b) *Approved Courses:*
- Abatement Worker (contingent from 5/18/88).
- Abatement Worker Refresher Course (contingent from 12/5/88).
(109)(a) *Training Provider:* Professional Service Industries, Inc.
Address: 510 East 22nd St., Lombard, IL 60148, Contact: W.K. Swartzendruber, Phone: (312) 691-1490.
(b) *Approved Courses:*
- Contractor/Supervisor (contingent from 11/13/89).
- Contractor/Supervisor Refresher Course (contingent from 10/11/89).
- Inspector/Management Planner (contingent from 12/15/88).
- Inspector/Management Planner (full from 4/27/89).
- Inspector/Management Planner Refresher Course (contingent from 10/11/89).
- (110)(a) *Training Provider:* Randolph & Associates, Inc.
Address: 8901 North Industrial Rd., Peoria, IL 61615, Contact: Kirk E. Sweetland, Phone: (309) 692-4422.
(b) *Approved Courses:*
- Contractor/Supervisor (contingent from 5/30/89).
- Contractor/Supervisor Refresher Course (contingent from 6/9/89).
(111)(a) *Training Provider:* Rend Lake College.
Address: Department AAA, Ina, IL 62846, Contact: Fred Bruno, Phone: (618) 437-5321.
(b) *Approved Courses:*
- Abatement Worker (contingent from 3/29/89).
- Abatement Worker (full from 10/10/89).
(112)(a) *Training Provider:* Risk Services, Inc.
Address: 26384 Ford Rd., Suite 200, Dearborn Heights, MI 48127, Contact: Michael J. Borsuck, Phone: (313) 565-5225.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/11/89).
- Abatement Worker Refresher Course (contingent from 4/11/89).
- Contractor/Supervisor (contingent from 4/11/89).
- Contractor/Supervisor Refresher Course (contingent from 4/11/89).
(113)(a) *Training Provider:* S.Z. Mansdorf & Associates, Inc.
Address: 2000 Chestnut Blvd., Cuyahoga Falls, OH 44223-1323, Contact: S.Z. Mansdorf, Phone: (216) 928-5434.
(b) *Approved Courses:*
- Contractor/Supervisor (contingent from 1/15/88).
- Contractor/Supervisor (full from 2/12/88).
- Contractor/Supervisor Refresher Course (contingent from 1/19/89).
- Inspector/Management Planner (contingent from 6/24/88).
- Inspector/Management Planner Refresher Course (contingent from 1/26/89).
(114)(a) *Training Provider:* Safer Foundation.
Address: 571 West Jackson Blvd., Chicago, IL 60606, Contact: C. Bentley or P. Bergmann, Phone: (312) 922-2200.
(b) *Approved Courses:*
- Abatement Worker (contingent from 9/15/88).
- Abatement Worker (full from 7/7/89).
- Abatement Worker Refresher Course (contingent from 11/3/89).
(115)(a) *Training Provider:* Safety Dynamics.

Address: 124 Massachusetts Ave., Poland, OH 44514, Contact: Ronald G. Zikmund, Phone: (216) 757-3899.

(b) *Approved Course:*

Abatement Worker (contingent from 8/18/89).

(116)(a) *Training Provider:* Safety Training of Illinois.

Address: 1515 South Park, Springfield, IL 62704, Contact: S. David Farris, Phone: (217) 787-9091.

(b) *Approved Courses:*

Abatement Worker (full from 12/18/87).
Abatement Worker Refresher Course (contingent from 11/14/88).

(117)(a) *Training Provider:* Sear Corp.
Address: 8802 Bash St., Suite F, Indianapolis, IN 46256, Contact: Todd M. Strader, Phone: (317) 576-5845.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/3/89).

Abatement Worker (full from 7/7/89).

(118)(a) *Training Provider:* Seneca Asbestos Removal & Control, Inc.
Address: 76 Ashwood Rd., Tiffin, OH 44883, Contact: Roger Bakies, Phone: (419) 447-0202.

(b) *Approved Courses:*

Abatement Worker (contingent from 4/21/89).

Abatement Worker (full from 11/15/89).

(119)(a) *Training Provider:* Sierra Analytical & Consulting Services, Inc.

Address: 307 North First St., Ann Arbor, MI 48103, Contact: David Nelson, Phone: (313) 662-1155.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/17/89).

Contractor/Supervisor (contingent from 1/26/89).

Contractor/Supervisor (full from 3/13/89).

(120)(a) *Training Provider:* South East Michigan Committee on Occupational Safety and Health (SEMCOHS).

Address: 1550 Howard St., Detroit, MI 48216, Contact: Barbara Boylan, Phone: (313) 961-3345.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/13/87).

Abatement Worker (full from 4/25/88).

Abatement Worker Refresher Course (contingent from 4/25/89).

(121)(a) *Training Provider:* Testing Engineers & Consultants, Inc.

Address: 1333 Rochester Rd., P.O. Box 249, Troy, MI 48099, Contact: Karl D. Agee, Phone: (313) 588-6200.

(b) *Approved Courses:*

Inspector/Management Planner (contingent from 5/9/88).

Inspector/Management Planner (full from 8/22/88).

Inspector/Management Planner Refresher Course (contingent from 3/30/89).

(122)(a) *Training Provider:* The American Center for Educational Development & Training Inc.

Address: 410 S. Michigan Ave., Suite 841, Chicago, IL 60605, Contact: Ronald Broom, Phone: (312) 322-2233.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/3/89).

Abatement Worker Refresher Course (contingent from 12/1/89).

(123)(a) *Training Provider:* The American Center for Educational Development, Inc.

Address: 410 S. Michigan Ave., Suite 841, Chicago, IL 60605, Contact: Ron Broom, Phone: (312) 322-2233.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/3/89).

Abatement Worker (full from 12/13/89).

Abatement Worker Refresher Course (contingent from 12/1/89).

Contractor/Supervisor (contingent from 11/3/89).

Contractor/Supervisor Refresher Course (contingent from 12/1/89).

(124)(a) *Training Provider:* The Brand Companies.

Address: 1420 Renaissance Dr., Park Ridge, IL 60068, Contact: Frank J. Barta, Phone: (312) 298-1200.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/4/89).

Abatement Worker (full from 5/1/89).

Abatement Worker Refresher Course (contingent from 6/8/89).

Contractor/Supervisor (contingent from 7/7/89).

Contractor/Supervisor Refresher Course (contingent from 8/16/89).

(125)(a) *Training Provider:* The Clear Consortium.

Address: 127 North Dearborn St., Chicago, IL 60602, Contact: Lorenzo Higgins, Phone: (312) 368-0211.

(b) *Approved Course:*

Abatement Worker (contingent from 7/18/89).

(126)(a) *Training Provider:* The Environmental Institute.

Address: 314 South State Ave., Indianapolis, IN 46201, Contact: Cindy Witte, Phone: (317) 269-3618.

(b) *Approved Course:*

Abatement Worker Refresher Course (contingent from 12/22/88).

(127)(a) *Training Provider:* Thermico, Inc.

Address: 3405 Centennial Dr., P.O. Box 2151, Midland, MI 48641-2151, Contact: Kevin Otis, Phone: (517) 496-2927.

(b) *Approved Course:*

Abatement Worker (contingent from 4/7/89).

(128)(a) *Training Provider:* Tillotson Consulting & Training, Inc.

Address: 9332 Oakview, Portage, MI 49002, Contact: Michael R. Tillotson, Phone: (616) 323-2124.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/29/88).

Abatement Worker Refresher Course (contingent from 12/11/88).

Contractor/Supervisor (contingent from 12/29/88).

Contractor/Supervisor Refresher Course (contingent from 12/11/88).

Inspector/Management Planner (contingent from 12/29/88).

Inspector/Management Planner Refresher Course (contingent from 12/11/88).

(129)(a) *Training Provider:* Trust Thermal Systems.

Address: 10445 Wright Rd., Eagle, MI 48822, Contact: Thomas Lowe, Phone: (517) 626-6791.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/1/88).

Abatement Worker Refresher Course (contingent from 4/7/89).

Contractor/Supervisor (contingent from 3/30/89).

Contractor/Supervisor Refresher Course (contingent from 4/7/89).

(130)(a) *Training Provider:* United Science Industries, Inc.

Address: 621 Ninth Street, P.O. Box 21, Carlyle, IL 62231, Contact: Mr. Koch, Phone: (618) 594-8670.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/4/89).

Abatement Worker Refresher Course (contingent from 12/20/89).

Contractor/Supervisor (contingent from 12/4/89).

Contractor/Supervisor Refresher Course (contingent from 12/20/89).

(131)(a) *Training Provider:* University of Cincinnati Medical Center Department of Environmental Health Kettering Laboratory.

Address: 3223 Eden Ave., ML 056, Cincinnati, OH 45267-0056, Contact: Judy L. Jarrell, Phone: (513) 558-1730.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/14/88).

- Abatement Worker (full from 11/15/88).
Abatement Worker Refresher Course (contingent from 7/11/89).
Contractor/Supervisor (full from 10/20/87).
Contractor/Supervisor Refresher Course (contingent from 10/4/89).
Inspector/Management Planner (full from 11/16/87).
Inspector/Management Planner Refresher Course (contingent from 12/1/88).
Project Designer (contingent from 10/26/89).
(132)(a) *Training Provider*: University of Illinois at Chicago M.A.I.C.
Address: 1440 West Washington, Chicago, IL 60612, Contact: Tony Billotti, Phone: (312) 996-5762.
(b) *Approved Courses*:
Abatement Worker (interim from 10/1/87 to 12/14/87).
Abatement Worker (contingent from 10/2/87).
Abatement Worker (full from 4/5/88).
Abatement Worker Refresher Course (contingent from 11/14/88).
Contractor/Supervisor (full from 6/1/88).
Contractor/Supervisor Refresher Course (contingent from 1/18/89).
Inspector/Management Planner (contingent from 10/2/87).
Inspector/Management Planner (full from 10/21/87).
Inspector/Management Planner Refresher Course (full from 2/17/89).
Project Designer (contingent from 7/7/89).
(133)(a) *Training Provider*: University of Wisconsin.
Address: 422 Lowell Hall, 610 Langdon St., Madison, WI 53703, Contact: Neil DeClercq, Phone: (608) 262-2111.
(b) *Approved Courses*:
Abatement Worker (full from 12/7/87).
Abatement Worker Refresher Course (contingent from 12/15/88).
Contractor/Supervisor (contingent from 2/2/88).
Contractor/Supervisor (full from 9/1/88).
Contractor/Supervisor Refresher Course (contingent from 12/15/88).
Inspector/Management Planner (contingent from 2/2/88).
Inspector/Management Planner (full from 2/22/88).
Inspector/Management Planner Refresher Course (contingent from 12/15/88).
Project Designer (contingent from 9/15/88).
Project Designer Refresher Course (contingent from 3/3/89).
(134)(a) *Training Provider*: William E. Fink & Associates.
Address: 25 South State St., Girard, OH 44420, Contact: William Fink, Phone: (216) 545-1222.
(b) *Approved Course*:
Contractor/Supervisor (contingent from 8/18/89).
(135)(a) *Training Provider*: William E. Fink & Associates, Inc.
Address: 3695 Indian Run, Suite 5, Canfield, OH 44406, Contact: William E. Fink, Phone: (216) 533-6299.
(b) *Approved Courses*:
Abatement Worker (contingent from 8/11/88).
Abatement Worker (full from 2/13/89).
Abatement Worker Refresher Course (contingent from 8/11/88).
Contractor/Supervisor (contingent from 8/18/89).
Contractor/Supervisor Refresher Course (contingent from 10/13/89).
(136)(a) *Training Provider*: Wisconsin Laborers Training Center.
Address: P.O. Box 150, Almond, WI 54909, Contact: Dean Jensen, Phone: (715) 366-8221.
(b) *Approved Courses*:
Abatement Worker (contingent from 1/8/87).
Abatement Worker (full from 11/29/88).
Abatement Worker Refresher Course (contingent from 11/14/88).
Contractor/Supervisor (contingent from 11/21/88).
Contractor/Supervisor (full from 11/29/88).
(137)(a) *Training Provider*: Wonder Makers, Inc.
Address: 3101 Darmo St., Kalamazoo, MI 49008, Contact: Michael A. Pinto, Phone: (616) 382-4154.
(b) *Approved Courses*:
Abatement Worker (contingent from 3/16/89).
Abatement Worker Refresher Course (contingent from 3/9/89).
Contractor/Supervisor (contingent from 3/16/89).
Contractor/Supervisor Refresher Course (contingent from 3/16/89).
Inspector/Management Planner (contingent from 4/21/89).
Inspector/Management Planner Refresher Course (contingent from 4/21/89).
- EPA-Approved Training Courses*
REGION VI—Dallas, TX
Regional Asbestos Coordinator: John West, 6T-PT, EPA, Region VI, 1445 Ross Avenue, Dallas, TX 75202-2733. (214) 655-7244, (FTS) 255-7244.
List of Approved Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region VI training courses and contact points for each, are as follows:
(1)(a) *Training Provider*: AAR, Inc.
Address: P.O. Box 742648, Houston, TX 77274-2648, Contact: David S. Barnett, Phone: (713) 777-9205.
(b) *Approved Course*:
Abatement Worker (contingent from 1/26/89).
(2)(a) *Training Provider*: AC & C Systems Corp.
Address: 5909 Northwest Expressway, Suite 310, Oklahoma City, OK 73132, Contact: Turner Stallings, Phone: (405) 728-0444.
(b) *Approved Courses*:
Abatement Worker (contingent from 10/20/88).
Contractor/Supervisor (contingent from 10/26/88).
(3)(a) *Training Provider*: AEGIS Associates, Inc.
Address: 4868 Research Dr., San Antonio, TX 78240, Contact: John J. Gokelman, Phone: (512) 641-8320.
(b) *Approved Courses*:
Abatement Worker (contingent from 6/14/89).
Contractor/Supervisor (contingent from 5/25/89).
Inspector Refresher Course (contingent from 4/4/89).
(4)(a) *Training Provider*: Abateco, Inc.
Address: 10000 Old Katy Rd., Suite 200, Houston, TX 77055, Contact: W.D. Heimbrook, Phone: (713) 461-0692.
(b) *Approved Courses*:
Abatement Worker (contingent from 8/14/89).
Abatement Worker Refresher Course (contingent from 3/17/89).
Contractor/Supervisor (contingent from 8/14/89).
(5)(a) *Training Provider*: Ahera Training Institute.
Address: 12116A Jekel Circle, Austin, TX 78727, Contact: Richard J. Thompson, Phone: (512) 335-3724.
(b) *Approved Courses*:
Abatement Worker (contingent from 10/10/89).
Abatement Worker Refresher Course (contingent from 12/15/89).
Contractor/Supervisor (contingent from 1/11/88).
Contractor/Supervisor (full from 3/1/88).
Contractor/Supervisor Refresher Course (contingent from 12/15/89).

Inspector/Management Planner (full from 1/25/88).

Inspector/Management Planner Refresher Course (contingent from 10/2/89).

(6)(a) *Training Provider:* Allied Training Systems.

Address: 4004 Tiffany, College Station, TX 77840, Contact: Dan Sheppard, Phone: (409) 690-0240.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/30/89).

Abatement Worker Refresher Course (contingent from 10/26/89).

Contractor/Supervisor Refresher Course (contingent from 10/31/89).

(7)(a) *Training Provider:* Allison Sheridan Environmental Training Services.

Address: 2411 Fountain View, Suite 120, Houston, TX 77057, Contact: Don Rawlings, Phone: (713) 953-1750.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/8/90).

Contractor/Supervisor (contingent from 1/8/90).

(8)(a) *Training Provider:* American Specialty Contractors, Inc.

Address: 8181 West Darryl Pkwy, Baton Rouge, LA 70896, Contact: Kurt Jones, Phone: (504) 926-9524.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/18/88).

Abatement Worker (full from 5/3/89).

Contractor/Supervisor (contingent from 11/18/88).

Contractor/Supervisor (full from 5/4/89).

(9)(a) *Training Provider:* Analytical Labs Training Center.

Address: 218 Market St., Baird, TX 79504, Contact: Bob Dye, Phone: (915) 854-1264.

(b) *Approved Courses:*

Abatement Worker (contingent from 4/21/89).

Contractor/Supervisor (contingent from 4/21/89).

(10)(a) *Training Provider:* Asbestos Education Services.

Address: 11609 Barchetta Dr., Austin, TX 78758, Contact: Rick Orr, Phone: (512) 832-5298.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/5/89).

Abatement Worker Refresher Course (contingent from 11/28/89).

Contractor/Supervisor (contingent from 10/25/89).

Contractor/Supervisor Refresher Course (contingent from 10/5/89).

Project Designer Refresher Course (contingent from 11/28/89).

(11)(a) *Training Provider:* Asbestos Surveys & Training, Inc.

Address: 5959 Central Crest, Houston, TX 77092, Contact: J.T. Stoneburger, Phone: (713) 681-2639.

(b) *Approved Course:*

Abatement Worker (full from 10/22/87).

(12)(a) *Training Provider:* Ashley Environmental Services.

Address: 5959 Central Crest, Houston, TX 77092, Contact: Jesse Ashley, Phone: (713) 683-6311.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/27/89).

Contractor/Supervisor (contingent from 9/29/89).

(13)(a) *Training Provider:* Beaumont Business Incubator.

Address: 1090 South Fourth St., Beaumont, TX 77701, Contact: Jerry Plaia, Phone: (409) 835-1554.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/29/90).

Abatement Worker Refresher Course (contingent from 1/29/90).

Contractor/Supervisor (contingent from 1/29/90).

Contractor/Supervisor Refresher Course (contingent from 1/29/90).

(14)(a) *Training Provider:* CCA Environmental Inc.

Address: 8499 Greenville Ave., Suite 105, Dallas, TX 75231, Contact: Alcee Chriss, Phone: (214) 348-1954.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/18/89).

Abatement Worker Refresher Course (contingent from 11/29/89).

Contractor/Supervisor (contingent from 11/29/89).

Contractor/Supervisor Refresher Course (contingent from 11/29/89).

(15)(a) *Training Provider:* Carpenters Apprenticeship Training School.

Address: 8505 Glen Vista, Houston, TX 77061, Contact: S.C. Strunk, Jr., Phone: (713) 641-1011.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/8/88).

Abatement Worker Refresher Course (contingent from 7/8/88).

(16)(a) *Training Provider:* Certified Asbestos Training Institute, Inc.

Address: 4202 Argentina Cir., Pasadena, TX 77504, Contact: Clyde O. Waters, Phone: (713) 487-3155.

(b) *Approved Course:*

Abatement Worker (contingent from 4/20/88).

(17)(a) *Training Provider:* El Paso Community College Transmountain Campus.

Address: P.O. Box 20500, El Paso, TX 79998, Contact: Jim Rath, Phone: (915) 757-5053.

(b) *Approved Courses:*

Abatement Worker (contingent from 11/28/89).

Abatement Worker Refresher Course (contingent from 11/28/89).

Contractor/Supervisor (contingent from 11/28/89).

Contractor/Supervisor Refresher Course (contingent from 11/28/89).

(18)(a) *Training Provider:* Enviro-Con Services, Inc.

Address: 10014 Sussex Drive, Houston, TX 77041, Contact: Johnny Bacot, Phone: (713) 524-4121.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/22/89).

Abatement Worker Refresher Course (contingent from 10/2/89).

Contractor/Supervisor (contingent from 9/21/89).

Contractor/Supervisor Refresher Course (contingent from 10/2/89).

(19)(a) *Training Provider:* Environmental Consultant Service.

Address: P.O. Box 586422, Dallas, TX 75258, Contact: Thomas Armstrong, Phone: (214) 638-3589.

(b) *Approved Courses:*

Abatement Worker (contingent from 4/20/89).

Contractor/Supervisor (contingent from 4/20/89).

Contractor/Supervisor Refresher Course (contingent from 9/1/89).

Inspector/Management Planner (contingent from 4/20/89).

(20)(a) *Training Provider:* Environmental Monitoring Service, Inc. (EMS).

Address: 13008 Amarillo Ave., Austin, TX 78729, Contact: Rick Pruett, Phone: (512) 335-9116.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/1/88).

Abatement Worker Refresher Course (contingent from 1/15/90).

Contractor/Supervisor (contingent from 2/5/90).

Inspector/Management Planner (contingent from 4/19/89).

(21)(a) *Training Provider:* Field Sciences Institute.

Address: 2309 Renard Pl. SE, Suite 104, Albuquerque, NM 87106, Contact: Robert L. Edgar, Phone: (505) 764-9251.

(b) *Approved Courses:*

- Abatement Worker (contingent from 10/13/89).
- Abatement Worker Refresher Course (full from 8/1/89).
- Contractor/Supervisor (contingent from 4/22/88).
- Contractor/Supervisor Refresher Course (full from 8/1/89).
- Inspector Refresher Course (full from 8/1/89).
- Inspector/Management Planner (contingent from 4/22/88).
- (22)(a) *Training Provider:* Fort Worth Independent School District.
Address: 3210 West Lancaster, Fort Worth, TX 76107, Contact: H.D. Duncan, Phone: (817) 336-8311.
(b) *Approved Courses:*
- Abatement Worker (contingent from 7/27/88).
- Abatement Worker Refresher Course (contingent from 7/27/88).
- (23)(a) *Training Provider:* GEBCO Associates, Inc.
Address: 1501 Norwood, Suite 142, Hurst, TX 76054-3638, Contact: Ed Kirch, Phone: (817) 268-4006.
(b) *Approved Courses:*
- Abatement Worker (interim from 4/15/87 to 8/19/87).
- Abatement Worker (full from 8/20/87).
- Abatement Worker Refresher Course (contingent from 5/16/88).
- Abatement Worker Refresher Course (full from 7/5/89).
- Contractor/Supervisor (contingent from 3/15/88).
- Contractor/Supervisor (full from 7/24/89).
- Contractor/Supervisor Refresher Course (contingent from 7/27/88).
- Contractor/Supervisor Refresher Course (full from 7/28/89).
- Inspector/Management Planner (full from 3/7/88).
- Inspector/Management Planner Refresher Course (contingent from 7/27/88).
- Inspector/Management Planner Refresher Course (full from 6/16/89).
- (24)(a) *Training Provider:* Gary LaFrance Abatement Workers Training Program.
Address: 4802 Prestwick, Tyler, TX 75703, Contact: Gary G. LaFrance, Phone: (214) 581-8852.
(b) *Approved Courses:*
- Abatement Worker (contingent from 12/14/88).
- Abatement Worker (full from 4/12/89).
- (25)(a) *Training Provider:* Houston Independent School District.
Address: 228 McCarty Dr., Houston, TX 77029, Contact: Bennie Jenkins, Phone: (713) 676-2222 X 398.
(b) *Approved Courses:*
- Abatement Worker (contingent from 10/10/89).
- Abatement Worker Refresher Course (contingent from 10/12/89).
- Abatement Worker Refresher Course (full from 10/12/89).
- (26)(a) *Training Provider:* IMPACT Inc.
Address: 5330 Griggs Rd., Houston, TX 77021, Contact: Edgar Harvey, Phone: (713) 845-2416.
(b) *Approved Course:*
- Abatement Worker (contingent from 8/17/89).
- (27)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 22.
Address: 3219 Pasadena Blvd., Pasadena, TX 77503, Contact: Robert M. Chadwick, Phone: (713) 473-0888.
(b) *Approved Courses:*
- Abatement Worker (interim from 10/1/87 to 10/4/87).
- Abatement Worker (contingent from 10/5/87).
- Abatement Worker (full from 3/22/88).
- Abatement Worker Refresher Course (contingent from 10/5/87).
- Contractor/Supervisor (full from 6/27/88).
- (28)(a) *Training Provider:* K & T Safety Service, Inc.
Address: 9888 Bissonnett, Houston, TX 77036, Contact: Kevin Clothier, Phone: (713) 988-9021.
(b) *Approved Course:*
- Abatement Worker (contingent from 3/28/89).
- (29)(a) *Training Provider:* Keers Environmental, Inc.
Address: P.O. Box 6848, Albuquerque, NM 89197, Contact: Robert W. Keers, Phone: (505) 888-9525.
(b) *Approved Courses:*
- Contractor/Supervisor (contingent from 3/28/89).
- Contractor/Supervisor Refresher Course (contingent from 10/6/89).
- (30)(a) *Training Provider:* Kiser Engineering, Inc.
Address: 211 North River St., Seguin, TX 78155, Contact: Nathan Kiser, Phone: (512) 372-2570.
(b) *Approved Courses:*
- Abatement Worker (contingent from 3/27/89).
- Abatement Worker Refresher Course (contingent from 8/24/89).
- Contractor/Supervisor (contingent from 3/29/89).
- Contractor/Supervisor Refresher Course (contingent from 8/24/89).
- (31)(a) *Training Provider:* Lafayette Parish School Board Asbestos Training Program.
Address: P.O. Drawer 2158, Lafayette, LA 70502, Contact: Salvador E. Longo, Phone: (504) 887-3740.
(b) *Approved Courses:*
- Abatement Worker (contingent from 7/21/88).
- Contractor/Supervisor (contingent from 7/21/88).
- (32)(a) *Training Provider:* Lamar University, Hazardous Materials Program.
Address: P.O. Box 10008, Beaumont, TX 77710, Contact: Marion Foster, Phone: (409) 880-2369.
(b) *Approved Courses:*
- Abatement Worker (contingent from 7/19/88).
- Abatement Worker (full from 4/26/89).
- Contractor/Supervisor (contingent from 5/20/88).
- Contractor/Supervisor Refresher Course (contingent from 10/24/88).
- (33)(a) *Training Provider:* Law Engineering.
Address: 5500 Guhn Rd., Houston, TX 77040, Contact: Richard MacIntyre, Phone: (713) 939-7161.
(b) *Approved Course:*
- Abatement Worker (contingent from 3/14/89).
- (34)(a) *Training Provider:* Little-Tex Insulation Co., Inc.
Address: 911 North Frio St., San Antonio, TX 78207, Contact: Dan Juepe, Phone: (512) 222-8094.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/1/88).
- Contractor/Supervisor (contingent from 8/1/88).
- (35)(a) *Training Provider:* Louisiana Laborers Union—AGC Training Fund.
Address: P.O. Box 376, Livonia, LA 70755-0376, Contact: Jamie Peers, Phone: (504) 637-2311.
(b) *Approved Courses:*
- Abatement Worker (contingent from 7/15/88).
- Abatement Worker Refresher Course (contingent from 4/4/89).
- (36)(a) *Training Provider:* Louisiana State University Agricultural & Mechanical College.
Address: 361 Pleasant Hall, Baton Rouge, LA 70803-1520, Contact: Marcia L. Gilman, Phone: (504) 388-6591.
(b) *Approved Courses:*
- Abatement Worker (full from 1/1/88).
- Abatement Worker Refresher Course (contingent from 11/16/88).
- Abatement Worker Refresher Course (full from 3/8/89).

- Contractor/Supervisor (contingent from 10/6/87).
- Contractor/Supervisor (full from 4/7/88).
- Contractor/Supervisor Refresher Course (contingent from 11/18/88).
- Contractor/Supervisor Refresher Course (full from 3/8/89).
- Inspector/Management Planner (full from 1/18/89).
- Inspector/Management Planner Refresher Course (full from 3/7/89).
- (37)(a) *Training Provider*: MARTECH International, Inc.
Address: P.O. Box 460, Broussard, LA 70518-0460, Contact: Gary Lawley, Phone: (318) 364-3880.
(b) *Approved Courses*:
Abatement Worker (contingent from 1/17/89).
- Contractor/Supervisor (contingent from 1/17/89).
- (38)(a) *Training Provider*: Maxim Engineers Inspectors.
Address: 2342 Fabens, Dallas, TX 75229, Contact: Kyle B. Dotson, Phone: (214) 247-7575.
(b) *Approved Courses*:
Abatement Worker (contingent from 1/6/89).
- Abatement Worker (full from 6/9/89).
- Inspector (contingent from 12/11/89).
- (39)(a) *Training Provider*: McClelland Management Services in Conjunction with the University of Houston.
Address: 6100 Hillcroft, Suite 220, Houston, TX 77081, Contact: David Windburne, Phone: (713) 995-9000.
(b) *Approved Courses*:
Abatement Worker (contingent from 1/5/90).
- Abatement Worker Refresher Course (contingent from 1/5/90).
- Contractor/Supervisor (contingent from 1/5/90).
- Contractor/Supervisor Refresher Course (contingent from 1/5/90).
- Inspector/Management Planner (contingent from 1/5/90).
- Inspector/Management Planner Refresher Course (contingent from 1/5/90).
- Project Designer (contingent from 1/5/90).
- Project Designer Refresher Course (contingent from 1/5/90).
- (40)(a) *Training Provider*: Meador-Wright & Associates, Inc.
Address: 6211 W. Northwest Hwy., Suite C260, Dallas, TX 75225, Contact: Carl Teel, Phone: (214) 691-3485.
(b) *Approved Course*:
Inspector/Management Planner (full from 10/12/89).
- (41)(a) *Training Provider*: Micro Analysis Laboratory, Inc.
Address: 8499 Greenville Ave., Dallas, TX 75231, Contact: Carolyn Jones, Phone: (214) 340-0890.
(b) *Approved Course*:
Abatement Worker (contingent from 9/6/89).
- (42)(a) *Training Provider*: Moore-Norman Area Vocational Training School.
Address: 4701 12th Ave. NW, Norman, OK 73069, Contact: Frank Coulter, Phone: (405) 364-7032.
(b) *Approved Courses*:
Abatement Worker (full from 3/3/86).
- Abatement Worker Refresher Course (contingent from 5/19/89).
- Abatement Worker Refresher Course (full from 12/14/89).
- Contractor/Supervisor (full from 12/14/89).
- Contractor/Supervisor Refresher Course (contingent from 12/14/89).
- Contractor/Supervisor Refresher Course (full from 12/14/89).
- Inspector/Management Planner (contingent from 1/25/88).
- Inspector/Management Planner (full from 4/4/88).
- Inspector/Management Planner Refresher Course (contingent from 5/19/89).
- (43)(a) *Training Provider*: NATEC of Texas, Inc.
Address: 6601 Kirby Dr, Suite III, Houston, TX 77005, Contact: Paul Speck, Phone: (713) 524-9444.
(b) *Approved Course*:
Abatement Worker (contingent from 11/22/89).
- (44)(a) *Training Provider*: Nelson/Imel, Inc.
Address: 3900 Morrison Cir., Norman, OK 73072, Contact: Deborah Nelson, Phone: (405) 364-3278.
(b) *Approved Courses*:
Abatement Worker (contingent from 7/27/88).
- Abatement Worker Refresher Course (contingent from 11/16/88).
- Contractor/Supervisor Refresher Course (contingent from 4/7/89).
- (45)(a) *Training Provider*: O'Connor McMahon, Inc.
Address: 1505 Luna Rd., Suite 114, Carrollton, TX 75006, Contact: James M. Walley, Phone: (214) 245-3300.
(b) *Approved Course*:
Abatement Worker (contingent from 7/27/88).
- (46)(a) *Training Provider*: Occupational Safety Training Institute.
Address: 9000 West Bellfort, Suite 450, Houston, TX 77031, Contact: Eva Bonilla, Phone: (713) 270-6882.
(b) *Approved Courses*:
Abatement Worker (contingent from 7/27/88).
- Abatement Worker Refresher Course (contingent from 12/8/88).
- Contractor/Supervisor (contingent from 7/27/88).
- Contractor/Supervisor (full from 7/27/88).
- Contractor/Supervisor Refresher Course (contingent from 12/8/88).
- Inspector/Management Planner (contingent from 9/15/88).
- (47)(a) *Training Provider*: PAN AM World Services Inc.
Address: P. O. Box 58938, Houston, TX 77258, Contact: Audrey Hall, Phone: (713) 483-7951.
(b) *Approved Course*:
Abatement Worker (contingent from 8/23/89).
- (48)(a) *Training Provider*: Protechnics Environmental Services.
Address: 14760 Memorial Dr., Suite 105, Houston, TX 77079, Contact: Hugh Songster, Phone: (713) 496-9874.
(b) *Approved Courses*:
Abatement Worker (contingent from 1/5/89).
- Abatement Worker (full from 6/30/89).
- Contractor/Supervisor (contingent from 6/22/89).
- Contractor/Supervisor Refresher Course (contingent from 11/28/89).
- (49)(a) *Training Provider*: R & H Associates, Inc.
Address: P.O. Box 8948, Albuquerque, NM 87198, Contact: Floyd Rubi, Phone: (505) 275-1045.
(b) *Approved Courses*:
Abatement Worker (contingent from 1/12/89).
- Abatement Worker Refresher Course (contingent from 4/20/89).
- Contractor/Supervisor (contingent from 1/12/89).
- Contractor/Supervisor Refresher Course (contingent from 4/20/89).
- Inspector/Management Planner (contingent from 1/12/89).
- Inspector/Management Planner Refresher Course (contingent from 4/20/89).
- (50)(a) *Training Provider*: Raba-Kistner Training Institute.
Address: 12821 West Golden Ln., San Antonio, TX 78249, Contact: Don Kirchoff, Phone: (512) 699-9090.
(b) *Approved Courses*:
Abatement Worker (contingent from 10/23/89).
- Contractor/Supervisor Refresher Course (contingent from 12/13/89).
- Inspector/Management Planner (contingent from 12/13/89).

- Inspector/Management Planner Refresher Course (contingent from 12/13/89).
(51)(a) *Training Provider:* Region 6 Environmental Training.
Address: P.O. Box 180435, Austin, TX 78718-0435, Contact: Charlotte Ramzel, Phone: (512) 837-9296.
(b) *Approved Courses:*
- Abatement Worker (contingent from 7/27/88).
Abatement Worker Refresher Course (contingent from 3/2/89).
Contractor/Supervisor (contingent from 7/27/88).
Contractor/Supervisor Refresher Course (contingent from 3/2/89).
Inspector/Management Planner (contingent from 10/10/89).
Inspector/Management Planner Refresher Course (contingent from 10/10/89).
(52)(a) *Training Provider:* Regional Environmental Training Center.
Address: 9024 Garland Rd., Dallas, TX 75218, Contact: Lisa Adams, Phone: (214) 328-2928.
(b) *Approved Courses:*
- Abatement Worker (contingent from 8/30/89).
Contractor/Supervisor (contingent from 9/1/89).
Inspector/Management Planner (contingent from 9/1/89).
(53)(a) *Training Provider:* Safety & Health Research Institute.
Address: 500 One Gallery Tower, 13355 Noel Rd., P.O. Box 612245, Dallas, TX 75261, Contact: Ted Davis, Phone: (214) 851-3536.
(b) *Approved Courses:*
- Abatement Worker (contingent from 9/12/88).
Contractor/Supervisor (contingent from 9/12/88).
Inspector/Management Planner (contingent from 9/12/88).
(54)(a) *Training Provider:* Southeast Arkansas Education Services Cooperative.
Address: U.A.M.—Willard Hall, P.O. Box 3507, Monticello, AR 71655, Contact: Lloyd Crossley, Phone: (501) 367-6848.
(b) *Approved Course:*
- Inspector/Management Planner Refresher Course (contingent from 4/11/89).
(55)(a) *Training Provider:* Southwest Environmental Institute.
Address: P.O. Box 295, Abilene, TX 79605, Contact: Tom Dye, Phone: (915) 691-0189.
(b) *Approved Courses:*
- Abatement Worker (contingent from 7/27/88).
Abatement Worker Refresher Course (contingent from 8/17/89).
Contractor/Supervisor (contingent from 10/20/88).
Contractor/Supervisor Refresher Course (contingent from 8/8/89).
Inspector/Management Planner (contingent from 8/24/89).
(56)(a) *Training Provider:* Specialized Environmental Services Inc.
Address: 6614 John Ralston Rd., Houston, TX 77049, Contact: James Homminga, Phone: (713) 458-7274.
(b) *Approved Course:*
- Abatement Worker (contingent from 11/29/89).
(57)(a) *Training Provider:* Specialized Environmental Training.
Address: P.O. Box 7001, Pasadena, TX 77508-7001, Contact: Sue Ann Williams, Phone: (713) 487-4415.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/12/90).
Contractor/Supervisor (contingent from 1/12/90).
(58)(a) *Training Provider:* Texas Engineering Extension Service Building Codes Inspection Training Division.
Address: Texas A & M University System, College Station, TX 77843-8000, Contact: Tom Garner, Phone: (409) 845-6682.
(b) *Approved Courses:*
- Abatement Worker (full from 9/28/87).
Contractor/Supervisor (interim from 5/26/86 to 9/13/87).
Contractor/Supervisor (full from 9/14/87).
Contractor/Supervisor Refresher Course (full from 3/2/89).
Inspector/Management Planner (full from 10/19/87).
Inspector/Management Planner Refresher Course (full from 3/1/89).
(59)(a) *Training Provider:* Texas Tech University.
Address: P.O. Box 4369, Lubbock, TX 79409, Contact: Paul Catter, Phone: (806) 742-3876.
(b) *Approved Courses:*
- Abatement Worker Refresher Course (contingent from 11/7/89).
Contractor/Supervisor (contingent from 10/31/89).
Contractor/Supervisor Refresher Course (contingent from 11/7/89).
(60)(a) *Training Provider:* Tulane University, School of Public Health & Tropical Medicine, Dept of Environmental Health Sciences.
Address: 1430 Tulane Ave., New Orleans, LA 70112, Contact: Shau-Wong-Chang, Phone: (504) 588-5374.
(b) *Approved Courses:*
- Contractor/Supervisor (interim from 3/17/87 to 9/14/87).
Contractor/Supervisor (full from 9/15/87).
Contractor/Supervisor Refresher Course (contingent from 8/1/89).
Inspector/Management Planner (contingent from 5/20/88).
Inspector/Management Planner Refresher Course (contingent from 8/1/89).
(61)(a) *Training Provider:* U.S. Analytical, Inc.
Address: P.O. Box 801, Abilene, TX 79604, Contact: Keith Davis, Phone: (915) 698-3293.
(b) *Approved Courses:*
- Abatement Worker (contingent from 2/13/89).
Abatement Worker Refresher Course (contingent from 1/5/89).
Contractor/Supervisor (contingent from 2/13/89).
(62)(a) *Training Provider:* U.S. Environmental Services.
Address: 3801 Hulen St., Suite 105, Ft. Worth, TX 76107, Contact: Steve Salmon, Phone: (817) 429-9400.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/8/90).
Abatement Worker Refresher Course (contingent from 1/8/90).
(63)(a) *Training Provider:* University of Arkansas at Little Rock Biology Dept.
Address: 33rd & University, Little Rock, AR 72204, Contact: Phyllis Moore, Phone: (501) 569-3270.
(b) *Approved Courses:*
- Inspector/Management Planner (contingent from 8/18/89).
Inspector/Management Planner Refresher Course (contingent from 6/20/89).
(64)(a) *Training Provider:* University of Arkansas at Little Rock, Labor Education Program.
Address: 2601 South University, Little Rock, AR 72204, Contact: James E. Nickles, Phone: (501) 569-8483.
(b) *Approved Courses:*
- Inspector/Management Planner (contingent from 9/14/88).
Inspector/Management Planner Refresher Course (contingent from 9/12/88).
(65)(a) *Training Provider:* University of Houston/McClelland Management Services, Inc.
Address: Houston, TX 77204-3901, Contact: Patricia Robinson, Phone: (713) 749-7358.
(b) *Approved Course:*

- Contractor/Supervisor (contingent from 5/5/89).
 (66)(a) *Training Provider:* University of New Mexico, The Environmental Training Center Division of Continuing Education.
 Address: 1634 University Blvd. NE, Albuquerque, NM 87131, Contact: Ed Rodriguez, Phone: (505) 277-9060.
 (b) *Approved Courses:*
 Abatement Worker (contingent from 10/4/89).
 Abatement Worker Refresher Course (contingent from 10/5/89).
 Contractor/Supervisor (contingent from 6/16/85).
 Contractor/Supervisor Refresher Course (contingent from 10/5/89).
 Inspector/Management Planner (contingent from 9/19/89).
 Inspector/Management Planner Refresher Course (contingent from 10/6/89).
 (67)(a) *Training Provider:* University of Texas Health Center at TYLER/Critical Environmental Training, Inc.
 Address: P.O. Box 2003, Tyler, TX 75710, Contact: Ronald F. Dodson, Phone: (214) 877-2310.
 (b) *Approved Courses:*
 Abatement Worker (full from 4/14/88).
 Abatement Worker Refresher Course (full from 10/27/88).
 Contractor/Supervisor (full from 3/7/88).
 Contractor/Supervisor Refresher Course (full from 10/27/88).
 Inspector/Management Planner (contingent from 3/21/88).
 Inspector/Management Planner (full from 4/15/88).
 Inspector/Management Planner Refresher Course (full from 10/27/88).
 (68)(a) *Training Provider:* University of Texas at Arlington Civil Engineering Dept.
 Address: Box 19308, Arlington, TX 76019, Contact: Vic Argento, Phone: (817) 273-3694.
 (b) *Approved Courses:*
 Contractor/Supervisor (full from 7/14/86).
 Contractor/Supervisor Refresher Course (full from 9/26/88).
 Inspector/Management Planner (full from 10/19/87).
 Inspector/Management Planner Refresher Course (full from 9/26/88).
 (69)(a) *Training Provider:* Veltmann Engineering.
 Address: Midland Air Park, P.O. Box 50741, Midland, TX 79710, Contact: Clyde Veltmann, Phone: (915) 683-1874.
 (b) *Approved Courses:*
 Abatement Worker (contingent from 7/27/88).
- Contractor/Supervisor (contingent from 7/27/88).
 Contractor/Supervisor Refresher Course (contingent from 8/8/89).
 (70)(a) *Training Provider:* Young Insulation Group of Amarillo, Inc.
 Address: P.O. Box 5098, Amarillo, TX 79117, Contact: Dennis C. Clayton, Phone: (806) 372-4329.
 (b) *Approved Courses:*
 Abatement Worker (contingent from 7/27/88).
 Abatement Worker Refresher Course (contingent from 7/27/88).
EPA-Approved Training Courses
REGION VII—Kansas City, KS
Regional Asbestos Coordinator:
 Wolfgang Brandner, EPA, Region VII, 726 Minnesota Ave., Kansas City, KS 66101. (913) 236-2835, (FTS) 757-2835.
List of Approved Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region VII training courses and contact points for each, are as follows:
 (1)(a) *Training Provider:* AEROSTAT Environmental Engineering Corporation.
 Address: 2817 Atchinson Ave., Box 3096, Lawrence, KS 66046, Contact: Joseph Stimac, Phone: (913) 749-4747.
 (b) *Approved Courses:*
 Abatement Worker (full from 5/9/88).
 Abatement Worker Refresher Course (contingent from 3/3/89).
 Abatement Worker Refresher Course (full from 3/16/89).
 Contractor/Supervisor (full from 5/9/88).
 Contractor/Supervisor Refresher Course (contingent from 3/17/89).
 Contractor/Supervisor Refresher Course (full from 3/17/89).
 Inspector/Management Planner (contingent from 3/14/88).
 Inspector/Management Planner (full from 1/23/89).
 Inspector/Management Planner Refresher Course (contingent from 1/13/89).
 Inspector/Management Planner Refresher Course (full from 2/14/89).
 (2)(a) *Training Provider:* Abatement Project Training.
 Address: P.O. Box 4372, Kansas City, KS 66104, Contact: Virginia Ireton, Phone: (913) 788-3440.
 (b) *Approved Courses:*
 Abatement Worker (contingent from 12/15/88).
 Abatement Worker (full from 4/27/89).
- Abatement Worker Refresher Course (contingent from 3/27/89).
 Abatement Worker Refresher Course (full from 4/29/89).
 Contractor/Supervisor (contingent from 3/23/89).
 Contractor/Supervisor (full from 4/28/89).
 Contractor/Supervisor Refresher Course (contingent from 6/21/89).
 Contractor/Supervisor Refresher Course (full from 1/8/90).
 (3)(a) *Training Provider:* Accredited Project Design Environmental Management.
 Address: 1532 S.W. Clontare, Topeka, KS 66611, Contact: Richard Pointer, Phone: (913) 267-1549.
 (b) *Approved Courses:*
 Abatement Worker (contingent from 11/16/89).
 Contractor/Supervisor (contingent from 11/16/89).
 Inspector/Management Planner (contingent from 11/13/89).
 (4)(a) *Training Provider:* American Asbestos Training Center, Ltd.
 Address: 529 West First, Monticello, IA 52310, Contact: Steve Intlekofer, Phone: (319) 465-5555.
 (b) *Approved Courses:*
 Abatement Worker (full from 6/27/88).
 Abatement Worker Refresher Course (contingent from 6/23/89).
 Abatement Worker Refresher Course (full from 6/26/89).
 Contractor/Supervisor (full from 6/27/88).
 Contractor/Supervisor Refresher Course (contingent from 6/23/89).
 Contractor/Supervisor Refresher Course (full from 6/26/89).
 Inspector/Management Planner (contingent from 10/26/88).
 Inspector/Management Planner (full from 11/18/88).
 Inspector/Management Planner Refresher Course (contingent from 11/10/89).
 Inspector/Management Planner Refresher Course (full from 11/16/89).
 (5)(a) *Training Provider:* Asbestos Consulting Testing (ACT).
 Address: 14953 West 101st Ter., Lenexa, KS 66215, Contact: Jim Pickel, Phone: (913) 492-1337.
 (b) *Approved Courses:*
 Abatement Worker (full from 1/25/88).
 Abatement Worker Refresher Course (full from 1/6/89).
 Contractor/Supervisor (full from 1/25/88).
 Contractor/Supervisor Refresher Course (full from 1/6/89).

- (6)(a) *Training Provider:* Baird Scientific, Inc.
Address: 221 West Fourth St., P.O. Box 842, Carthage, MO 64836, Contact: Mackie Redd, Phone: (417) 358-5567.
- (b) *Approved Courses:*
Abatement Worker (contingent from 9/20/89).
Abatement Worker (full from 10/19/89).
Contractor/Supervisor (contingent from 9/20/89).
Contractor/Supervisor (full from 10/19/89).
- (7)(a) *Training Provider:* CHART Services, Ltd.
Address: 4725 Merle Hay Rd., Suite 214, Des Moines, IA 50322, Contact: Mary A. Finn, Phone: (515) 276-3642.
- (b) *Approved Courses:*
Abatement Worker (full from 11/17/87).
Abatement Worker Refresher Course (full from 10/17/88).
Contractor/Supervisor (full from 11/17/87).
Contractor/Supervisor Refresher Course (full from 10/17/88).
Inspector/Management Planner (full from 2/22/88).
Inspector/Management Planner Refresher Course (full from 11/28/88).
- (8)(a) *Training Provider:* Construction Industry Laborers' Training Institute for Eastern Missouri.
Address: Route 1, Box 79 H, High Hill, MO 63350, Contact: Jerald A. Pelker, Phone: (314) 585-2391.
- (b) *Approved Courses:*
Abatement Worker (full from 1/19/88).
Abatement Worker Refresher Course (contingent from 5/18/89).
Abatement Worker Refresher Course (full from 5/31/89).
- (9)(a) *Training Provider:* Construction Laborers Building Corp.
Address: Box 34549, Omaha, NE 68134, Contact: Jack Budd, Phone: (402) 572-0826.
- (b) *Approved Course:*
Abatement Worker (full from 11/2/87).
- (10)(a) *Training Provider:* Educational Innovations.
Address: 23 West 3rd St., Lee's Summit, MO 64063, Contact: JoAnn Onwiler, Phone: (816) 525-6911.
- (b) *Approved Courses:*
Abatement Worker (contingent from 4/11/89).
Abatement Worker (full from 5/2/89).
Abatement Worker Refresher Course (contingent from 3/29/89).
Abatement Worker Refresher Course (full from 8/2/89).
Contractor/Supervisor (contingent from 4/11/89).
Contractor/Supervisor (full from 5/2/89).
- Contractor/Supervisor Refresher Course (contingent from 3/29/89).
Contractor/Supervisor Refresher Course (full from 8/2/89).
Project Designer Refresher Course (contingent from 6/21/89).
Project Designer Refresher Course (full from 7/31/89).
- (11)(a) *Training Provider:* Enviro-Impact Inspections, Inc.
Address: 1515 North Warson, Suite 213, St. Louis, MO 63132, Contact: Denis Boles, Phone: (314) 426-0087.
- (b) *Approved Courses:*
Abatement Worker (contingent from 3/8/88).
Contractor/Supervisor (contingent from 3/8/88).
- (12)(a) *Training Provider:* Environmental Salvage, Ltd.
Address: 25 South 15th St., Suite 6A, Council Bluffs, IA 51501, Contact: Tracey Coats, Phone: (712) 323-1836.
- (b) *Approved Courses:*
Abatement Worker (contingent from 1/12/89).
Abatement Worker (full from 2/16/89).
Abatement Worker Refresher Course (contingent from 6/22/89).
Abatement Worker Refresher Course (full from 8/1/89).
Contractor/Supervisor (contingent from 1/12/89).
Contractor/Supervisor (full from 2/16/89).
Contractor/Supervisor Refresher Course (contingent from 6/22/89).
Contractor/Supervisor Refresher Course (full from 8/1/89).
- (13)(a) *Training Provider:* Environmental Technology, Inc.
Address: 4315 Merriam Dr., Overland Park, KS 66203, Contact: Mike Bouska, Phone: (913) 236-5040.
- (b) *Approved Courses:*
Abatement Worker (full from 2/29/88).
Abatement Worker Refresher Course (contingent from 4/26/89).
Abatement Worker Refresher Course (full from 7/18/89).
- (14)(a) *Training Provider:* Flint Hills Area Vocational-Technical School.
Address: 3301 West 18th Ave., Emporia, KS 66801, Contact: Jim Krueger, Phone: (316) 342-6404.
- (b) *Approved Course:*
Abatement Worker (full from 3/7/88).
- (15)(a) *Training Provider:* General Services Administration (GSA)—Region 6 Safety & Environmental Management Div.
Address: 1500 East Bannister Rd., Kansas City, MO 64131-3088, Contact: Sharon Kersey, Phone: (816) 926-5318.
- (b) *Approved Courses:*
Inspector/Management Planner (full from 5/16/88).
Inspector/Management Planner Refresher Course (contingent from 7/18/89).
Inspector/Management Planner Refresher Course (full from 8/20/89).
- (16)(a) *Training Provider:* Greater Kansas City Laborers Training Fund.
Address: 8944 Kaw Dr., Kansas City, KS 66111, Contact: James D. Barnett, Phone: (913) 441-6100.
- (b) *Approved Courses:*
Abatement Worker (full from 2/1/88).
Abatement Worker Refresher Course (contingent from 6/19/89).
Abatement Worker Refresher Course (full from 7/19/89).
Contractor/Supervisor (full from 5/2/88).
Contractor/Supervisor Refresher Course (contingent from 6/19/89).
Contractor/Supervisor Refresher Course (full from 7/20/89).
- (17)(a) *Training Provider:* Hall-Kimbrell Environmental Services.
Address: 4840 West 15th St., Lawrence, KS 66049, Contact: Alice Hart, Phone: (800) 637-0129.
- (b) *Approved Courses:*
Abatement Worker (full from 8/17/87).
Abatement Worker Refresher Course (contingent from 9/19/88).
Abatement Worker Refresher Course (full from 10/19/88).
Contractor/Supervisor (full from 8/17/87).
Contractor/Supervisor Refresher Course (contingent from 9/19/88).
Contractor/Supervisor Refresher Course (full from 10/20/88).
Inspector/Management Planner (full from 8/17/87).
Inspector/Management Planner Refresher Course (full from 9/19/88).
Project Designer (full from 8/17/87).
Project Designer Refresher Course (contingent from 9/19/88).
Project Designer Refresher Course (full from 12/20/88).
- (18)(a) *Training Provider:* Hazard Control Training Enterprises, Inc.
Address: P.O. Box 20594, Wichita, KS 67208, Contact: Karen Alexander, Phone: (316) 778-1153.
- (b) *Approved Courses:*
Abatement Worker (contingent from 10/19/88 to 12/8/88 only).
Contractor/Supervisor (contingent from 10/19/88 to 12/7/88 only).
- (19)(a) *Training Provider:* Hazardous Materials Training & Research Institute.
Address: 306 West River Dr., Davenport, IA 52801-1221, Contact: Kirk Barkdoll, Phone: (319) 322-5015.

(b) Approved Courses:

Abatement Worker (contingent from 3/6/89).

Abatement Worker (full from 4/13/89).
Contractor/Supervisor (contingent from 6/8/89).

Contractor/Supervisor (full from 7/21/89).

(20)(a) *Training Provider:* Insulators & Asbestos Workers Midwest States Health & Training Council.

Address: Rural Route 2, Wahoo, NE 68066, Contact: Ray Richmond, Phone: (402) 443-4810.

(b) Approved Courses:

Abatement Worker (full from 6/28/88).

Abatement Worker Refresher Course (contingent from 4/4/89).

Abatement Worker Refresher Course (full from 4/24/89).

Contractor/Supervisor (full from 6/28/88).

Contractor/Supervisor Refresher Course (contingent from 4/4/89).

Contractor/Supervisor Refresher Course (full from 4/24/89).

(21)(a) Training Provider:

International Association of Heat & Frost Insulators & Asbestos Workers Local No.1.

Address: 3325 Hallenberg Dr., St. Louis, MO 63044, Contact: James M. Hagen, Phone: (314) 291-7399.

(b) Approved Courses:

Abatement Worker (full from 6/6/88).

Abatement Worker Refresher Course (contingent from 6/28/89).

Abatement Worker Refresher Course (full from 6/30/89).

Contractor/Supervisor (full from 9/16/88).

Contractor/Supervisor Refresher Course (contingent from 8/14/89).

(22)(a) *Training Provider:* Iowa Dept. of Education.

Address: Grimes State Office Bldg., Des Moines, IA 50319, Contact: C. Milt Wilson, Phone: (515) 281-4743.

(b) Approved Course:

Inspector/Management Planner (full from 4/4/88).

(23)(a) *Training Provider:* Iowa Laborers District Council Training Fund.

Address: 5806 Meredith Dr., Suite B, Des Moines, IA 50322, Contact: Jack G. Jones, Phone: (515) 270-6965.

(b) Approved Courses:

Abatement Worker (full from 2/22/88).

Abatement Worker Refresher Course (contingent from 11/10/89).

Abatement Worker Refresher Course (full from 11/14/89).

Contractor/Supervisor (contingent from 1/8/89).

Contractor/Supervisor (full from 12/6/89).

(24)(a) *Training Provider:* Kansas Construction Laborers' Training Trust Fund.

Address: 2430 Marlatt Ave., Manhattan, KS 66502, Contact: Fred Tipton, Phone: (913) 267-0140.

(b) Approved Courses:

Abatement Worker (full from 1/5/88).

Abatement Worker Refresher Course (contingent from 6/19/89).

Abatement Worker Refresher Course (full from 7/19/89).

Contractor/Supervisor (full from 5/2/88).

Contractor/Supervisor Refresher Course (contingent from 6/19/89).

Contractor/Supervisor Refresher Course (full from 7/20/89).

(25)(a) *Training Provider:* Kansas State University.

Address: Division of Facilities Management, Dykstra Hall, Manhattan, KS 66506, Contact: Robert D. Williams, Phone: (913) 532-5967.

(b) Approved Courses:

Abatement Worker (contingent from 12/27/89).

Abatement Worker Refresher Course (contingent from 1/3/90).

Abatement Worker Refresher Course (full from 1/3/90).

(26)(a) *Training Provider:* Living Word College.

Address: 2750 McKelvey Rd., St. Louis, MO 63043, Contact: Donald C. Femmer, Phone: (314) 291-2749.

(b) Approved Course:

Inspector/Management Planner (Approval Revoked 5/6/88).

(27)(a) *Training Provider:* MITON, Inc.

Address: P.O. Box 1582, Branson, MO 65616, Contact: Tony Williams, Phone: (417) 335-6743.

(b) Approved Courses:

Abatement Worker (contingent from 4/14/89).

Abatement Worker (full from 5/15/89).

Contractor/Supervisor (contingent from 4/14/89).

Contractor/Supervisor (full from 5/15/89).

Inspector/Management Planner (full from 3/14/88).

Inspector/Management Planner Refresher Course (contingent from 3/30/89).

Inspector/Management Planner Refresher Course (full from 4/3/89).

(28)(a) *Training Provider:* Maple Woods Community College.

Address: 10771 Ambassador Dr., Kansas City, MO 64153, Contact: James C. Lauer, Phone: (816) 891-6500.

(b) Approved Courses:

Abatement Worker (full from 2/1/88).

Abatement Worker Refresher Course (full from 1/13/89).

Contractor/Supervisor (full from 3/28/88).

Contractor/Supervisor Refresher Course (full from 1/13/89).

Inspector/Management Planner (contingent from 4/20/88).

Inspector/Management Planner (full from 5/2/88).

Inspector/Management Planner Refresher Course (contingent from 7/27/89).

Inspector/Management Planner Refresher Course (full from 7/28/89).

(29)(a) *Training Provider:* Mayhew Environmental Training Associates, Inc. (META).

Address: P.O. Box 1961, Lawrence, KS 66044, Contact: Brad Mayhew/Betty Fenstermaker, Phone: (800) 444-6382.

(b) Approved Courses:

Abatement Worker (full from 10/20/87).

Abatement Worker Refresher Course (full from 11/14/88).

Contractor/Supervisor (contingent from 10/5/87).

Contractor/Supervisor (full from 10/20/87).

Contractor/Supervisor Refresher Course (full from 11/14/88).

Inspector/Management Planner (full from 8/8/88).

Inspector/Management Planner Refresher Course (full from 1/30/89).

(30)(a) *Training Provider:* Midwest Environmental Testing & Training, Inc.

Address: 635 Southwest 2nd St., Box 1029, Lee's Summit, MO 64063, Contact: Steve Minshall, Phone: (816) 525-6681.

(b) Approved Courses:

Abatement Worker (full from 5/9/88 to 6/5/89 only).

Abatement Worker Refresher Course (contingent from 4/29/89 to 6/5/89 only).

Contractor/Supervisor (full from 5/9/88 to 6/5/89 only).

Contractor/Supervisor Refresher Course (contingent from 4/28/89 to 6/5/89 only).

(31)(a) *Training Provider:* National Asbestos Training Center, University of Kansas.

Address: 6600 College Blvd., Suite 315, Overland Park, KS 66211, Contact: Karen Wilson, Phone: (913) 491-0181.

(b) *Approved Courses:*

Abatement Worker (full from 7/27/87).

Abatement Worker Refresher Course (contingent from 10/5/88).

Abatement Worker Refresher Course (full from 9/26/89).

- Contractor/Supervisor (interim from 6/1/85 to 7/26/87).
- Contractor/Supervisor (full from 7/27/87).
- Contractor/Supervisor Refresher Course (contingent from 10/5/88).
- Contractor/Supervisor Refresher Course (full from 1/25/89).
- Inspector/Management Planner (full from 10/26/87).
- Inspector/Management Planner Refresher Course (contingent from 10/5/88).
- Inspector/Management Planner Refresher Course (full from 1/25/89).
- (32)(a) *Training Provider:* PS&H Inc. Address: 1810 Craig Rd., Suite 114, St. Louis, MO 63146, Contact: Carol E. Hoag, Phone: (314) 275-7733.
- (b) *Approved Courses:*
- Abatement Worker (full from 11/2/89).
- Abatement Worker Refresher Course (contingent from 9/14/89).
- Abatement Worker Refresher Course (full from 11/2/89).
- Contractor/Supervisor (full from 11/28/88).
- Contractor/Supervisor Refresher Course (contingent from 9/14/89).
- Contractor/Supervisor Refresher Course (full from 11/2/89).
- Inspector/Management Planner (full from 6/23/88).
- Inspector/Management Planner Refresher Course (contingent from 1/19/89).
- Inspector/Management Planner Refresher Course (full from 3/2/89).
- (33)(a) *Training Provider:* Performance Abatement Services, Inc. Address: 14801 West 99th St., P.O. Box 19328, Lenexa, KS 66215, Contact: Robert Bornkessel, Phone: (913) 888-2423.
- (b) *Approved Courses:*
- Contractor/Supervisor (contingent from 7/6/89).
- Contractor/Supervisor (full from 7/27/89).
- (34)(a) *Training Provider:* Roth Asbestos Consultants, Inc. Address: 1900 West 47th Pl., Westwood, KS 66205, Contact: Donald J. Welsh, Phone: (913) 831-4795.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 3/9/89).
- Abatement Worker (full from 3/13/89).
- Abatement Worker Refresher Course (contingent from 6/15/89).
- Contractor/Supervisor (contingent from 5/16/89).
- Contractor/Supervisor (full from 7/20/89).
- Contractor/Supervisor Refresher Course (contingent from 5/18/89).
- Inspector/Management Planner Refresher Course (contingent from 1/19/89).
- Inspector/Management Planner Refresher Course (full from 1/23/89).
- (35)(a) *Training Provider:* Ryckman's Emergency Action & Consulting Team (REACT). Address: 2208 Welsch Industrial Ct., St. Louis, MO 63146, Contact: Nicolaus P. Neuman, Phone: (800) 325-1398.
- (b) *Approved Courses:*
- Abatement Worker (full from 7/26/88).
- Abatement Worker Refresher Course (contingent from 4/26/89).
- Abatement Worker Refresher Course (full from 8/3/89).
- Contractor/Supervisor (full from 7/26/88).
- Contractor/Supervisor Refresher Course (contingent from 4/26/89).
- Contractor/Supervisor Refresher Course (full from 8/4/89).
- EPA-Approved Training Courses*
- REGION VIII—Denver, CO*
- Regional Asbestos Coordinator:* David Combs, (8AT-TS), EPA, Region VIII, 1 Denver Place, 999-18th St., Suite 500, Denver, CO 80202-2413. (303) 293-1744, (FTS) 564-1744.
- List of Approved Courses:* The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region VIII training courses and contact points for each, are as follows.
- (1)(a) *Training Provider:* Acme Asbestos Removal. Address: 9101 Pearl St., Suite 307, Thornton, CO 80229, Contact: Eugene Aragan, Phone: (303) 450-5026.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 7/26/89).
- Abatement Worker (full from 11/22/89).
- Abatement Worker Refresher Course (contingent from 5/31/89).
- Contractor/Supervisor (contingent from 7/26/89).
- Contractor/Supervisor (full from 11/22/89).
- (2)(a) *Training Provider:* Asbestos Training & Supply. Address: 504 Saddle Dr., Cheyenne, WY 82009, Contact: F. Gerald Blackwell, Phone: (307) 634-6858.
- (b) *Approved Course:*
- Abatement Worker (contingent from 5/2/89).
- (3)(a) *Training Provider:* Chen-Northern, Inc. Address: 600 South 25th St., Billings, MT 59107, Contact: Kathleen A. Smit, Phone: (406) 248-9161.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 10/1/87).
- Abatement Worker (full from 12/8/87).
- Abatement Worker Refresher Course (contingent from 2/16/89).
- Contractor/Supervisor (contingent from 10/31/88).
- Contractor/Supervisor Refresher Course (contingent from 5/31/89).
- (4)(a) *Training Provider:* Colorado Carpenters Statewide Joint Apprenticeship Educational & Training Committee. Address: 4290 Holly St., Denver, CO 80216, Contact: Stephen L. Sanford, Phone: (303) 393-6060.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 12/1/88).
- Abatement Worker (full from 12/19/88).
- (5)(a) *Training Provider:* Colorado Laborers' & Contractors' Education & Training Fund. Address: 10505 Havana, Brighton, CO 80601, Contact: James Zancanaro, Phone: (303) 287-3116.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 2/16/89).
- Abatement Worker (full from 2/16/89).
- (6)(a) *Training Provider:* Colorado State University Dept. of Industrial Sciences. Address: Fort Collins, CO 80523, Contact: Birgit Wolff, Phone: (303) 491-7240.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 8/23/88).
- Abatement Worker Refresher Course (contingent from 12/9/88).
- Contractor/Supervisor (contingent from 12/29/88).
- Contractor/Supervisor Refresher Course (contingent from 12/9/88).
- Inspector/Management Planner (contingent from 3/14/88).
- Inspector/Management Planner (full from 5/23/88).
- Inspector/Management Planner Refresher Course (contingent from 12/9/88).
- (7)(a) *Training Provider:* Colorado Training Institute. Address: 1210 East Colfax, Suite 306, Denver, CO 80218, Contact: Peter Amary, Phone: (303) 860-0574.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 10/31/88).

- Abatement Worker Refresher Course (contingent from 12/29/88).
- Contractor/Supervisor (contingent from 10/31/88).
- Contractor/Supervisor Refresher Course (contingent from 12/29/88).
- (8)(a) *Training Provider:* Energy Insulation, Inc. (EII).
- Address: P.O. Box 1996, Casper, WY 82602, Contact: David K. Fox, Phone: (307) 473-1247.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 5/18/88).
- Abatement Worker (full from 6/22/88).
- (9)(a) *Training Provider:* Envir-o-Tech.
- Address: 300 Moore Ln., Billings, MT 59102, Contact: Leonard Cranford, Phone: (406) 252-7538.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 6/13/88).
- Abatement Worker (full from 7/6/88).
- (10)(a) *Training Provider:* Front Range Community College.
- Address: 3645 West 112 Ave., Westminster, CO 80030, Contact: Dr. Gwen Burton, Phone: (303) 466-8811.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 6/13/88).
- Abatement Worker (full from 4/7/89).
- Abatement Worker Refresher Course (contingent from 2/28/89).
- Contractor/Supervisor (contingent from 2/28/89).
- Contractor/Supervisor (full from 4/7/89).
- Contractor/Supervisor Refresher Course (contingent from 2/28/89).
- Inspector/Management Planner (contingent from 2/28/89).
- Inspector/Management Planner Refresher Course (contingent from 2/28/89).
- (11)(a) *Training Provider:* HWS Technologies, Inc.
- Address: 9101 East Kenyon Ave., Suite 1600, Denver, CO 80237, Contact: William C. Oleskevich, Phone: (303) 771-6863.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 2/28/89).
- Abatement Worker (full from 4/7/89).
- Abatement Worker Refresher Course (contingent from 2/28/89).
- Abatement Worker Refresher Course (full from 6/29/89).
- Contractor/Supervisor (contingent from 2/28/89).
- Contractor/Supervisor (full from 4/7/89).
- Contractor/Supervisor Refresher Course (contingent from 2/28/89).
- Contractor/Supervisor Refresher Course (full from 6/29/89).
- Inspector/Management Planner (contingent from 2/28/89).
- Inspector/Management Planner Refresher Course (contingent from 2/28/89).
- (12)(a) *Training Provider:* Hager Laboratories, Inc.
- Address: 5930 McIntire St., P.O. Box 4012, Golden, CO 80403, Contact: Charles Metzger & D. Robinson, Phone: (303) 278-3400.
- (b) *Approved Courses:*
- Abatement Worker (full from 3/28/88).
- Abatement Worker Refresher Course (contingent from 10/7/88).
- Abatement Worker Refresher Course (full from 4/26/89).
- Contractor/Supervisor (full from 3/28/88).
- Contractor/Supervisor Refresher Course (contingent from 10/7/88).
- Contractor/Supervisor Refresher Course (full from 1/25/89).
- Inspector/Management Planner (contingent from 4/20/88).
- Inspector/Management Planner (full from 5/2/88).
- Inspector/Management Planner Refresher Course (contingent from 10/7/88).
- Inspector/Management Planner Refresher Course (full from 12/6/89).
- (13)(a) *Training Provider:* Industrial Health, Inc. (IHI).
- Address: 640 East Wilmington Ave., Salt Lake City, UT 84106, Contact: Donald E. Marano, Phone: (801) 466-2223.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 1/4/89).
- Abatement Worker (full from 11/13/89).
- Abatement Worker Refresher Course (contingent from 6/15/89).
- Contractor/Supervisor (contingent from 4/22/88).
- Contractor/Supervisor (full from 11/13/89).
- Contractor/Supervisor Refresher Course (contingent from 4/24/89).
- Inspector/Management Planner (contingent from 2/28/89).
- Inspector/Management Planner (full from 4/17/89).
- Inspector/Management Planner Refresher Course (contingent from 12/29/88).
- Inspector/Management Planner Refresher Course (full from 1/6/89).
- Project Designer Refresher Course (contingent from 4/24/89).
- (14)(a) *Training Provider:* International Association of Heat & Frost Insulators & Asbestos Workers Local Union No. 28.
- Address: 360 Acoma St., Suite 216, Denver, CO 80223, Contact: Chet Graham & Pat Pfeifer, Phone: (303) 773-8602.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 2/28/89).
- Abatement Worker (full from 4/28/89).
- Abatement Worker Refresher Course (full from 7/21/89).
- (15)(a) *Training Provider:* Laborers AGC Training Program for Montana.
- Address: Rural Route 221D, Helena, MT 59601, Contact: Eugene Fenderson, Phone: (406) 442-9964.
- (b) *Approved Course:*
- Abatement Worker (contingent from 9/19/88).
- (16)(a) *Training Provider:* Major Environmental & Training Services, Inc.
- Address: 100 Garfield St., Suite 100, Denver, CO 80206, Contact: Tom Major Sr., Phone: (303) 322-9490.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 1/28/88).
- Abatement Worker (full from 9/15/88).
- Abatement Worker Refresher Course (contingent from 1/18/89).
- Contractor/Supervisor (contingent from 4/14/88).
- Contractor/Supervisor (full from 9/5/88).
- Contractor/Supervisor Refresher Course (contingent from 1/18/89).
- Inspector/Management Planner (contingent from 1/2/88).
- Inspector/Management Planner (full from 3/27/89).
- Inspector/Management Planner Refresher Course (contingent from 1/18/89).
- Project Designer (contingent from 1/28/88).
- Project Designer Refresher Course (contingent from 1/18/89).
- (17)(a) *Training Provider:* Midwest Asbestos Consultants, Inc. (MAC).
- Address: 219 23rd St. North, Box 170, Fargo, ND 58107, Contact: Jerry Day, Phone: (701) 280-2286.
- (b) *Approved Courses:*
- Abatement Worker (contingent from 8/11/88).
- Abatement Worker (full from 5/23/89).
- Abatement Worker Refresher Course (contingent from 7/31/89).
- (18)(a) *Training Provider:* Misers Inspection & Training, Inc.
- Address: 1600 South Cherokee St., Denver, CO 80223, Contact: Michael E. DiRito, Phone: (303) 761-0367.
- (b) *Approved Courses:*

Abatement Worker (contingent from 6/17/88).

Abatement Worker (full from 7/5/88).

Abatement Worker Refresher Course (contingent from 11/14/88).

Abatement Worker Refresher Course (full from 1/27/89).

Contractor/Supervisor (contingent from 6/17/88).

Contractor/Supervisor (full from 7/5/88).

Contractor/Supervisor Refresher Course (contingent from 11/14/88).

Contractor/Supervisor Refresher Course (full from 1/27/89).

(19)(a) *Training Provider:* NATEC International, Inc.

Address: 2761 West Oxford Ave., No. 7, Englewood, CO 80110, Contact: Lester Ablin, Phone: (303) 781-0422.

(b) *Approved Courses:*

Abatement Worker (contingent from 4/15/88).

Inspector/Management Planner (contingent from 6/2/89).

(20)(a) *Training Provider:* National Education Program for Asbestos (NEPA).

Address: 2863 West 8750 S, West Jordan, UT 84088, Contact: Mark A. Kirk, Phone: (801) 565-1400.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/6/89).

Abatement Worker (full from 6/22/89).

Abatement Worker Refresher Course (contingent from 5/22/89).

Contractor/Supervisor (contingent from 5/22/89).

Contractor/Supervisor (full from 6/22/89).

(21)(a) *Training Provider:* Power Master, Inc.

Address: 13205 South State St., Draper, UT 84020, Contact: Brain Welty, Phone: (801) 571-9321.

(b) *Approved Course:*

Abatement Worker (contingent from 6/13/88).

(22)(a) *Training Provider:* Precision Safety & Services, Inc.

Address: 1045 W. Garden of Gods Rd., Bay T, Colorado Springs, CO 80907, Contact: James R. Mapes, Jr., Phone: (719) 593-8596.

(b) *Approved Courses:*

Abatement Worker (contingent from 8/11/88).

Abatement Worker (full from 11/2/88).

(23)(a) *Training Provider:* R.S. Christiansen Asbestos Consultant.

Address: 4980 Holladay Blvd., Salt Lake City, UT 84117, Contact: R.S. Christiansen, Phone: (801) 572-2910.

(b) *Approved Courses:*

Abatement Worker (contingent from 7/29/88).

Abatement Worker (full from 12/7/88).

(24)(a) *Training Provider:* South Dakota State University College of Engineering.

Address: Box 2218, Brookings, SD 57007-0597, Contact: James Ceglian, Phone: (605) 688-4101.

(b) *Approved Courses:*

Contractor/Supervisor (contingent from 5/18/88).

Inspector/Management Planner (contingent from 5/18/88).

(25)(a) *Training Provider:* Survey Management & Design (SMD).

Address: RR 2, Box 85-B, Fargo, ND 58102, Contact: David A. Sohm, Phone: (701) 234-9556.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/2/89).

Contractor/Supervisor (contingent from 3/2/89).

Contractor/Supervisor (full from 5/2/89).

Inspector/Management Planner (contingent from 9/14/89).

Inspector/Management Planner (full from 10/15/89).

(26)(a) *Training Provider:* The Environmental Training Center.

Address: 2761 W. Oxford Ave., No. 7, Englewood, CO 80110, Contact: Les Ablin, Phone: (303) 781-0422.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/21/89).

Contractor/Supervisor (contingent from 9/21/89).

(27)(a) *Training Provider:* University of Utah, Rocky Mountain Center for Occupational & Environmental Health.

Address: Dept. of Family & Preventive Medicine, Building 512, Salt Lake City, UT 84112, Contact: Jeffery S. Lee, Phone: (801) 581-5710.

(b) *Approved Courses:*

Abatement Worker (contingent from 9/27/88).

Abatement Worker (full from 9/27/88).

Contractor/Supervisor (contingent from 6/1/87).

Contractor/Supervisor (full from 6/1/87).

Contractor/Supervisor Refresher Course (contingent from 6/7/88).

Contractor/Supervisor Refresher Course (full from 11/13/88).

Inspector/Management Planner (contingent from 12/23/87).

Inspector/Management Planner (full from 2/8/88).

Inspector/Management Planner Refresher Course (contingent from 12/9/88).

Inspector/Management Planner Refresher Course (full from 12/14/88).

EPA-Approved Training Courses

REGION IX—San Francisco, CA

Regional Asbestos Coordinator: Jo Ann Semones, (A-4-2), EPA, Region IX, 215 Fremont St., San Francisco, CA 94105, (415) 974-7290, (FTS) 454-7290.

List of Asbestos Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region IX training courses and contact points for each, are as follows:

(1)(a) *Training Provider:* Ahearn & Associates, Inc.

Address: 4047 E Rancho Drive, Phoenix, AZ 85018, Contact: Robert L. Hutzel, Phone: (602) 759-0235.

(b) *Approved Courses:*

Contractor/Supervisor Refresher Course (contingent from 12/6/89).

Inspector/Management Planner Refresher Course (contingent from 12/6/89).

(2)(a) *Training Provider:* Asbestos C.T.I.

Address: P.O. Box 228, Mokelumne Hill, CA 95245, Contact: Lee Hess, Phone: (209) 286-1249.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/31/89).

Contractor/Supervisor (contingent from 10/31/88).

Inspector (contingent from 3/21/89).

(3)(a) *Training Provider:* Asbestos Seminars and Consulting.

Address: 4032 S Hempstead Circle, San Diego, CA 92116, Contact: Susan Zuanich, Phone: (619) 528-0196.

(b) *Approved Courses:*

Abatement Worker Refresher Course (contingent from 12/6/89).

Contractor/Supervisor Refresher Course (contingent from 12/6/89).

Inspector/Management Planner Refresher Course (contingent from 12/6/89).

(4)(a) *Training Provider:* Asbestos Workers Abatement Training Program of Southern California.

Address: 1669 East Lincoln Ave., Orange, CA 92655-1929, Contact: James Riley, Phone: (714) 921-8110.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/27/88).

- Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor (contingent from 1/28/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
(5)(a) *Training Provider:* California State University Sacramento.
Address: 650 University Avenue, Suite 101A, Sacramento, CA 95825, Contact: Jackie Branch, Phone: (916) 923-0282.
(b) *Approved Courses:*
- Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
(6)(a) *Training Provider:* Carpenters No. 46 Northern California Counties J.A.T.C. & T.B.
Address: 2350 Santa Rita Rd., Pleasanton, CA 94566-4190, Contact: Hugh Johnson, Phone: (415) 462-9840.
(b) *Approved Courses:*
- Abatement Worker (contingent from 10/31/89).
Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor (contingent from 12/1/88).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
(7)(a) *Training Provider:* Center for Accelerated Learning.
Address: 400 Buck Ave., Suite G, Vacaville, CA 95688, Contact: David Esparza, Phone: (707) 446-7996.
(b) *Approved Courses:*
- Abatement Worker (contingent from 6/1/88).
Abatement Worker Refresher Course (contingent from 12/15/88).
Contractor/Supervisor (contingent from 6/1/88).
Contractor/Supervisor Refresher Course (contingent from 12/15/88).
Inspector/Management Planner (contingent from 6/30/88).
Inspector/Management Planner Refresher Course (contingent from 10/18/89).
Project Designer (contingent from 10/31/89).
Project Designer Refresher Course (contingent from 10/18/89).
(8)(a) *Training Provider:* DWC Consulting Co., Inc.
Address: 1250 Pine St., Suite 307, Walnut Creek, CA 94596, Contact: Dan Weathers, Phone: (415) 933-9066.
(b) *Approved Courses:*
- Abatement Worker (contingent from 4/3/89).
Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor (contingent from 4/3/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
Inspector/Management Planner (contingent from 4/3/89).
Inspector/Management Planner Refresher Course (contingent from 10/18/89).
(9)(a) *Training Provider:* Dan Napier & Associates.
Address: 15342 Hawthorne Blvd., Suite 207, P.O. Box 1540, Lawndale, CA 90260-6440, Contact: Dan Napier, Phone: (213) 644-1924.
(b) *Approved Courses:*
- Abatement Worker (contingent from 1/18/88).
Abatement Worker Refresher Course (contingent from 1/18/89).
Contractor/Supervisor (contingent from 3/27/89).
Contractor/Supervisor Refresher Course (contingent from 1/18/89).
Inspector/Management Planner (contingent from 4/3/89).
Inspector/Management Planner Refresher Course (contingent from 3/30/89).
Project Designer Refresher Course (contingent from 3/30/89).
(10)(a) *Training Provider:* Design for Health.
Address: 1516 W Redwood, Suite 104, San Diego, CA 92101, Contact: Mary A. Lacy, R.N., Phone: (619) 528-0196.
(b) *Approved Courses:*
- Abatement Worker (contingent from 11/30/89).
Abatement Worker Refresher Course (contingent from 12/6/89).
Contractor/Supervisor Refresher Course (contingent from 12/6/89).
Inspector/Management Planner (contingent from 11/30/89).
(11)(a) *Training Provider:* Diagnostic Engineering, Inc.
Address: 50 East Foothill Blvd., Arcadia, CA 91006, Contact: Alan M. Lamson, Phone: (818) 447-5216.
(b) *Approved Courses:*
- Abatement Worker (contingent from 10/27/88).
Contractor/Supervisor (contingent from 6/27/88).
Inspector/Management Planner (contingent from 6/27/88).
Inspector/Management Planner Refresher Course (contingent from 10/18/89).
Project Designer (contingent from 12/1/88).
Project Designer Refresher Course (contingent from 10/18/89).
(12)(a) *Training Provider:* Enviro Med.
Address: 2200 E River Road, Suite 122, Tucson, AZ 85718, Contact: Elizabeth Shanley, Phone: (602) 577-0818.
- (b) *Approved Courses:*
- Contractor/Supervisor Refresher Course (contingent from 12/6/89).
Inspector/Management Planner Refresher Course (contingent from 12/6/89).
(13)(a) *Training Provider:* Eagle Environmental.
Address: 8840 A Elder Creek Rd., Sacramento, CA 95828, Contact: Larry West, Phone: (916) 381-5548.
(b) *Approved Courses:*
- Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
Inspector/Management Planner Refresher Course (contingent from 10/18/89).
Project Designer Refresher Course (contingent from 10/18/89).
(14)(a) *Training Provider:* EnviroMD, Inc.
Address: 3443 East Fort Lowell Rd., Tucson, AZ 85716, Contact: Thomas Mc Mannus, Phone: (602) 681-1000.
(b) *Approved Courses:*
- Contractor/Supervisor (contingent from 1/17/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
Inspector/Management Planner (contingent from 10/31/89).
Inspector/Management Planner Refresher Course (contingent from 10/18/89).
(15)(a) *Training Provider:* Environmental Control Industries.
Address: 5720 Shattuck Ave., Oakland, CA 94609, Contact: Richard McGlothlin, Phone: (415) 655-5855.
(b) *Approved Courses:*
- Abatement Worker (contingent from 12/1/88).
Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor (contingent from 10/31/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
(16)(a) *Training Provider:* Environmental Sciences, Inc.
Address: 105 E. Speedway, Tucson, AZ 85705, Contact: Dale Keyes, Phone: (602) 792-0097.
(b) *Approved Courses:*
- Inspector/Management Planner (contingent from 9/29/87).
Inspector/Management Planner (full from 10/5/87).
Inspector/Management Planner Refresher Course (contingent from 11/14/88).

(17)(a) *Training Provider:* Excel Environmental, Inc.
Address: 739 Allston Way, Berkeley, CA 94710, Contact: Otis Wong, Phone: (415) 548-4300.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/28/87).
Abatement Worker Refresher Course (contingent from 12/1/88).
Contractor/Supervisor (contingent from 6/3/88).
Contractor/Supervisor Refresher Course (contingent from 12/1/88).

(18)(a) *Training Provider:* Hawaii Laborers Training School.

Address: P.O. Box 457, Aiea, HI 96701, Contact: Norman Jimeno, Phone: (808) 488-6161.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/27/88).
Abatement Worker Refresher Course (contingent from 10/18/89).

(19)(a) *Training Provider:* Herring & Herring.

Address: No. 9 Grits Court, Sacramento, CA 95823, Contact: Leslie Herring, Phone: (916) 421-6260.

(b) *Approved Courses:*

Abatement Worker (contingent from 1/2/90).
Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor (contingent from 1/2/90).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).

(20)(a) *Training Provider:* INFOTOX.

Address: 8531 Mission Blvd, Suite 24, Riverside, CA 92509, Contact: Paul Jackson, Phone: (714) 685-5053.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/18/89).
Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor (contingent from 10/18/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).

(21)(a) *Training Provider:* Insulators & Asbestos Industry of Northern California & Local Union No. 16 Asbestos Training Fund.

Address: 2033 Clement Ave., Building 31, Room 112, Alameda, CA 94501, Contact: Hans D. Siebert, Phone: (415) 865-2292.

(b) *Approved Courses:*

Abatement Worker (contingent from 5/27/88).
Contractor/Supervisor (contingent from 10/31/89).

(22)(a) *Training Provider:* International Technology Corp.

Address: 336 West Anaheim St., Wilmington, CA 90748, Contact: Keith Soebe, Phone: (213) 830-1781.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/24/87).
Abatement Worker Refresher Course (contingent from 3/29/89).
Contractor/Supervisor (contingent from 4/15/88).
Contractor/Supervisor Refresher Course (contingent from 3/29/89).

(23)(a) *Training Provider:* KELLCO Training Institute.

Address: 44814 Osgood Rd., Fremont, CA 94539, Contact: Charles W. Kellogg, Phone: (415) 659-9751.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/1/88).
Contractor/Supervisor (contingent from 7/20/88).
Contractor/Supervisor Refresher Course (contingent from 10/31/88).
Inspector/Management Planner (contingent from 3/21/89).

Inspector/Management Planner Refresher Course (contingent from 3/16/89).

(24)(a) *Training Provider:* Laborers Training & Retraining Trust Fund for Northern California.

Address: 21321 San Ramon Valley Blvd., San Ramon, CA 94583, Contact: Monte R. Strother, Phone: (415) 828-2513.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/13/88).
Abatement Worker Refresher Course (contingent from 12/15/88).

(25)(a) *Training Provider:* Laborers Training & Retraining Trust Fund for Southern California.

Address: P.O. Box 76, Anza, CA 92306-0076, Contact: Don Sanders, Phone: (714) 763-4341.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/30/88).
Abatement Worker Refresher Course (contingent from 10/18/89).

(26)(a) *Training Provider:* Lehr Training Institute, Inc.

Address: 4125 East La Palma Ave. Suite 300, Anaheim, CA 92807, Contact: Susan Patnode, Phone: (714) 572-0110.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/16/88).
Abatement Worker Refresher Course (contingent from 2/21/89).
Contractor/Supervisor (contingent from 2/16/88).
Contractor/Supervisor Refresher Course (contingent from 2/21/89).

Inspector/Management Planner (contingent from 10/31/88).
Inspector/Management Planner Refresher Course (contingent from 2/21/89).

(27)(a) *Training Provider:* National Abatement Technology Employment Center (NATEC).

Address: 11552 Knott St., Suite 8, Garden Grove, CA 92643, Contact: Ronald Sandlin, Phone: (714) 894-7577.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/30/87).
Abatement Worker Refresher Course (contingent from 11/14/88).
Contractor/Supervisor (contingent from 12/30/87).
Contractor/Supervisor Refresher Course (contingent from 11/14/88).

(28)(a) *Training Provider:* National Institute for Asbestos & Hazardous Waste Training.

Address: 1019 West Manchester Blvd., Inglewood, CA 90301, Contact: Jim McFarland, Phone: (213) 645-4516.

(b) *Approved Courses:*

Abatement Worker (full from 12/7/87).
Abatement Worker Refresher Course (contingent from 10/19/88).
Contractor/Supervisor (full from 12/7/87).
Contractor/Supervisor Refresher Course (contingent from 10/19/88).
Inspector/Management Planner (contingent from 6/30/88).
Inspector/Management Planner Refresher Course (contingent from 11/14/88).

(29)(a) *Training Provider:* Naval Civil Engineering Laboratory.

Address: Port Hueneme, CA 93043-5003, Contact: Susan C. Tianen, Phone: (805) 982-4711.

(b) *Approved Courses:*

Abatement Worker (contingent from 10/31/89).
Abatement Worker Refresher Course (contingent from 10/18/89).
Contractor/Supervisor (contingent from 10/31/89).
Contractor/Supervisor Refresher Course (contingent from 10/18/89).
Inspector (contingent from 4/6/89).

(30)(a) *Training Provider:* Occupational Training Institute, Inc.

Address: 5 Civic Center, Suite 225, Newport Beach, CA 92660, Contact: David K. Hardman, Phone: (714) 721-9578.

(b) *Approved Courses:*

Abatement Worker (contingent from 2/21/89).
Abatement Worker Refresher Course (contingent from 2/21/89).

Contractor/Supervisor (contingent from 2/21/89).
 Contractor/Supervisor Refresher Course (contingent from 2/21/89).
 Inspector/Management Planner (contingent from 2/21/89).
 Inspector/Management Planner Refresher Course (contingent from 2/21/89).

(31)(a) *Training Provider:* Pacific Asbestos Information Center U.C. Extension.

Address: 2223 Fulton St., Berkeley, CA 94720, Contact: Debra Dobbin, Phone: (415) 643-7143.

(b) *Approved Courses:*

Contractor/Supervisor (full from 2/2/87).
 Contractor/Supervisor Refresher Course (contingent from 10/19/88).
 Inspector/Management Planner (full from 11/16/87).
 Inspector/Management Planner Refresher Course (contingent from 10/19/88).
 Project Designer (contingent from 10/31/89).

(32)(a) *Training Provider:* Robert Harvey Griese.

Address: 23214 Via Ladera, Valencia, CA 91355, Contact: Robert H. Griese, Phone: (805) 259-1478.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/6/89).
 Contractor/Supervisor (contingent from 12/6/89).
 Inspector/Management Planner (contingent from 12/6/89).

(33)(a) *Training Provider:* Salem Kroeger, Inc.

Address: 106 Church St., Roseville, CA 95678, Contact: Owen C. Tilley, Phone: (916) 784-7222.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/30/89).
 Abatement Worker Refresher Course (contingent from 4/3/89).
 Contractor/Supervisor (contingent from 3/30/89).
 Contractor/Supervisor Refresher Course (contingent from 4/3/89).
 Inspector Refresher Course (contingent from 4/3/89).

(34)(a) *Training Provider:* San Diego County Construction Laborers Training & Retraining Trust.

Address: 4161 Home Ave., Second Fl., San Diego, CA 92105, Contact: Bob White, Phone: (619) 263-6941.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/21/89).
 Abatement Worker Refresher Course (contingent from 10/18/89).

(35)(a) *Training Provider:* San Diego County District Council of Carpenters.
 Address: 4665 Mercury St., San Diego, CA 92111, Contact: Otis Kunz, Phone: (619) 571-8977.

(b) *Approved Courses:*

Abatement Worker (contingent from 3/30/89).
 Contractor/Supervisor (contingent from 10/31/88).

(36)(a) *Training Provider:* Spectrum Environmental Training.
 Address: 6425 Bristol Pkwy., Suite 305, Culver City, CA 90230, Contact: Judy Armstrong, Phone: (213) 322-2332.

(b) *Approved Courses:*

Abatement Worker (contingent from 12/6/89).
 Contractor/Supervisor (contingent from 12/6/89).

(37)(a) *Training Provider:* The Asbestos Institute.
 Address: 2701 East Camelback, Suite 381, Phoenix, AZ 85016, Contact: William T. Cavness, Phone: (602) 381-0896.

(b) *Approved Courses:*

Abatement Worker (contingent from 6/30/88).
 Abatement Worker Refresher Course (contingent from 10/31/88).
 Contractor/Supervisor (contingent from 6/13/88).
 Contractor/Supervisor Refresher Course (contingent from 3/9/89).
 Inspector/Management Planner (contingent from 6/17/88).
 Inspector/Management Planner Refresher Course (contingent from 6/16/88).

(38)(a) *Training Provider:* University Associates, Ltd.

Address: 2425-A North Huachuca Dr., Tucson, AZ 85745, Contact: Carolyn Coker, Phone: (602) 624-9366.

(b) *Approved Course:*

Inspector/Management Planner (contingent from 12/1/88).

(39)(a) *Training Provider:* University of Southern California Institute of Safety & Systems Management.

Address: University Gardens, 3500 South Figueroa St., Suite 202, Los Angeles, CA 90007, Contact: James O. Pierce, Phone: (213) 743-6523.

(b) *Approved Courses:*

Inspector/Management Planner (contingent from 2/15/88).
 Inspector/Management Planner (full from 8/2/88).
 Inspector/Management Planner Refresher Course (contingent from 2/23/89).

EPA-Approved Training Courses
 REGION X—Seattle, WA

Regional Asbestos Coordinator: Walter Jasper, EPA, Region X, 1200 Sixth Ave. (8T-083), Seattle, WA 98101. (206) 442-4762, (FTS) 399-2870.

List of Approved Courses: The following training courses have been approved by EPA. The courses are listed under (b). This approval is subject to the level of certification indicated after the course name. Training Providers are listed in alphabetical order and do not reflect a prioritization. Approvals for Region X training courses and contact points for each, are as follows:

(1)(a) *Training Provider:* Artic Slope Consulting Group.

Address: 3801 S Cushman, Fairbanks, AK 99701-7529, Contact: Robert A Perkins, Phone: (907) 451-6009.

(b) *Approved Course:*

Inspector/Management Planner Refresher Course (contingent from 10/25/89).

(2)(a) *Training Provider:* Asbestos Removal Technologies.

Address: P.O. Box 4762, Vancouver, WA 98662, Contact: Skip Gaultier, Phone: (800) 321-4121.

(b) *Approved Courses:*

Inspector/Management Planner Refresher Course (contingent from 10/25/89).

Inspector/Management Planner Refresher Course (full from 12/26/89).
 Project Designer Refresher Course (contingent from 10/25/89).

Project Designer Refresher Course (full from 12/26/89).

(3)(a) *Training Provider:* Asbestos Services International.

Address: 12360 Southwest Butner Rd., Portland, OR 97225-5815, Contact: Robert E. Hastings, Phone: (503) 644-0246.

(b) *Approved Courses:*

Inspector/Management Planner (contingent from 8/23/88).

Inspector/Management Planner (full from 7/17/89).

Inspector/Management Planner Refresher Course (contingent from 10/31/88).

Inspector/Management Planner Refresher Course (full from 1/20/89).
 Project Designer (contingent from 10/31/88).

Project Designer (full from 1/17/89).

(4)(a) *Training Provider:* Certified Industrial Hygiene Services, Inc.

Address: 911 Western Ave., Suite 206, Seattle, WA 98104, Contact: Dorothy Stansel, Phone: (206) 622-1096.

(b) Approved Course:

Inspector (contingent from 3/25/88).

(5)(a) Training Provider: Engineering Continuing Education University of Washington.Address: GG-13, Seattle, WA 98195.
Contact: Susan G. Stone, Phone: (206) 543-5539.**(b) Approved Courses:**Inspector/Management Planner
(contingent from 1/26/88).Inspector/Management Planner (full
from 2/8/88).**(6)(a) Training Provider:**Environmental Health Sciences Lake
Washington Vo-Tech.Address: 11605 132nd Ave., NE,
Kirkland, WA 98034. Contact: Dave
Rodewald, Phone: (206) 828-5643.**(b) Approved Courses:**Inspector/Management Planner (full
from 4/11/88).Inspector/Management Planner
Refresher Course (contingent from 1/
14/89).Inspector/Management Planner
Refresher Course (full from 1/27/89).Project Designer (contingent from 12/11/
89).**(7)(a) Training Provider:**

Environmental Management, Inc.

Address: P.O. Box 91477, Anchorage, AK
99509, Contact: Kenneth Johnson,
Phone: (907) 272-8056.**(b) Approved Course:**Inspector/Management Planner (full
from 4/18/88).**(8)(a) Training Provider:** Hazcon, Inc.Address: 5950 6th Ave., S, Suite 216,
Seattle, WA 98108, Contact: Mike
Krause, Phone: (206) 763-7364.**(b) Approved Courses:**Inspector/Management Planner
(contingent from 3/1/88).Inspector/Management Planner (full
from 4/4/88).Inspector/Management Planner
Refresher Course (contingent from 1/
18/89).Inspector/Management Planner
Refresher Course (full from 1/30/89).**(9)(a) Training Provider:** Heavy
Engineers, Inc.Address: 113 Russell St., P.O. Box 832,
Stevenson, WA 98648-0832, Contact:
Daniel Evans, Phone: (509) 427-8936.**(b) Approved Courses:**Inspector/Management Planner
(contingent from 4/13/88).Inspector/Management Planner (full
from 5/2/88).Inspector/Management Planner
Refresher Course (contingent from 1/
18/89).

Inspector/Management Planner

Refresher Course (full from 3/10/89).

(10)(a) Training Provider: NAC
Corporation/Northwest Asbestos
Consultants.Address: 1005 Northwest Galveston,
Suite E, Bend, OR 97701, Contact: Dale
Schmidt, Phone: (503) 389-9727.**(b) Approved Courses:**Inspector/Management Planner
Refresher Course (contingent from 4/
25/89).Inspector/Management Planner
Refresher Course (full from 7/24/89).**(11)(a) Training Provider:** Northwest
Envirocon, Inc.Address: 4020 Southeast International
Way, Suite C-106, Milwaukie, OR
97222, Contact: Shiela Wanta, Phone:
(503) 659-8899.**(b) Approved Courses:**Inspector/Management Planner
(contingent from 4/13/88).Inspector/Management Planner (full
from 5/2/88).**(12)(a) Training Provider:** PBS
Environmental Building Consultants,
Inc.Address: 1220 South West Morrison,
Portland, OR 97205, Contact: Stephen
Smiley, Phone: (503) 248-1939.**(b) Approved Courses:**Inspector/Management Planner
(contingent from 2/4/88).Inspector/Management Planner (full
from 3/14/88).Inspector/Management Planner
Refresher Course (contingent from 3/
14/89).Inspector/Management Planner
Refresher Course (full from 6/30/89).Project Designer (contingent from 6/9/
89).

Project Designer (full from 6/19/89).

Project Designer Refresher Course
(contingent from 10/25/89).**(13)(a) Training Provider:** South East
Regional Resource Center, Inc.Address: 210 Ferry Way, Suite 200,
Juneau, AK 99801, Contact: William
Suss, Phone: (907) 586-6806.**(b) Approved Course:**Inspector/Management Planner
Refresher Course (contingent from 4/
18/89).**(14)(a) Training Provider:** Specialized
Environmental Consulting, Inc.Address: P.O. Box 363, Wauna, WA
98395, Contact: Raymond Donahue,
Phone: (206) 857-3222.**(b) Approved Courses:**Inspector/Management Planner
Refresher Course (contingent from 3/
7/89).Inspector/Management Planner
Refresher Course (full from 3/20/89).**(15)(a) Training Provider:** University
of Alaska, Mining & Petroleum Training
Services.Address: 155 Smith Way, Suite 104,
Soldotna, AK 99669, Contact: Dennis
D. Steffy, Phone: (907) 262-2788.**(b) Approved Courses:**Inspector/Management Planner
(contingent from 2/16/88).Inspector/Management Planner (full
from 4/11/88).Inspector/Management Planner
Refresher Course (contingent from 1/
14/89).**(16)(a) Training Provider:** Valley
Research Corporation.Address: 1299 E. 2400 St., Hagerman, ID
83332, Contact: Leon Urie, Phone: (208)
837-6437.**(b) Approved Course:**Contractor/Supervisor (contingent from
10/20/89).**(17)(a) Training Provider:** Washington
Association of Maintenance &
Operations Administrators, WAMOA.Address: 12037 Northeast Fifth,
Bellevue, WA 98005, Contact: Colin
MacRae, Phone: (206) 455-8054.**(b) Approved Courses:**Inspector/Management Planner
Refresher Course (contingent from 4/
25/89).Inspector/Management Planner
Refresher Course (full from 7/24/89).**V. List of EPA-Accredited Polarized
Light Microscopy (PLM) Laboratories****A. Background**

Section 206(d) of Title II requires EPA to provide for the development of an accreditation program through the National Institute of Standards and Technology (NIST), formerly the National Bureau of Standards (NBS), for laboratories conducting analyses of bulk samples of asbestos-containing materials. NIST began initial evaluations of enrolled laboratories in October 1988 and has accredited approximately 550 PLM laboratories to date. NIST will continue to accredit laboratories on a regular basis.

EPA, to initially provide LEAs with a source of accredited laboratories until NIST completed its laboratory evaluations, established the "Interim Asbestos Bulk Sample Analysis Quality Assurance Program." EPA announced the program in the *Federal Register* of September 30, 1987 (52 FR 33470). In the program, laboratories successfully meeting EPA requirements were provided EPA Interim Accreditation. However, as of October 30, 1989, all EPA Interim Accreditations were removed.

EPA published a notice in the *Federal Register* on September 18, 1989 (54 FR 38436) describing the removal process. Specifically, the notice stated all EPA accredited laboratories must receive NIST accreditation by October 30, 1989.

The following listing includes *commercial* and *noncommercial* laboratories currently accredited in the NIST National Voluntary Laboratory Accreditation Program (NVLAP). NIST continues to evaluate the accredited laboratories with ongoing proficiency testing rounds. It is possible some accredited laboratories could lose their accredited status based on their performance in NIST proficiency testing rounds. If this happens, NIST will assign the term "suspended" to the accredited status of the laboratory. EPA does not consider a suspended accreditation to meet the regulatory requirements for the utilization of an accredited laboratory. Hence, LEAs must not use suspended laboratories. Prior to selecting a laboratory, LEAs should contact NIST at (301) 975-4016 to verify the accredited status of the laboratory. Additional copies of this listing may be obtained by calling (202) 554-1404.

EPA Accredited Commercial PLM Laboratories

REGION I—Boston, MA

Regional Asbestos Coordinator: Joe DeCola, EPA, Region I, Air and Management Division (APT-2311), JFK Federal Building, Boston, MA 02203. (617) 565-3835, (FTS) 835-3835.

(1) *Laboratory:* Aetna Life & Casualty (NIST), Engineering Department W101.

Address: 575 Pigeon Hill Rd., Windsor, CT 06095, Contact: Ethel Patricio, Phone: (203) 683-3647.

(2) *Laboratory:* Air Quality Consultants (NIST).

Address: 406 Libbey Pkwy., Weymouth, MA 02189, Contact: John E. O'Malley, Phone: (617) 337-7320.

(3) *Laboratory:* Allied Engineering, Inc. (NIST).

Address: 11 Columbia St., Augusta, ME 04330, Contact: Gary Bates, Phone: (207) 623-9299.

(4) *Laboratory:* Analytical Testing Services (NIST).

Address: 180 Weeden St., Pawtucket, RI 02860-1804, Contact: Robert F. Weisberg, Phone: (401) 723-7978.

(5) *Laboratory:* Applied Occupational Health Systems (NIST).

Address: 29 River Rd., Suite 18, Concord, NH 03301, Contact: Richard R. Kretovich, Phone: (603) 228-3610.

(6) *Laboratory:* Balsam Environmental Consultants, Inc. (NIST).

Address: 225 Western Ave., Augusta, ME 04330, Contact: Frank Hill, Phone: (603) 893-0616.

(7) *Laboratory:* Balsam Environmental Consultants, Inc. (NIST).

Address: 59 Stiles Rd., Salem, NH 03079, Contact: Linda Goodreau, Phone: (603) 893-0616.

(8) *Laboratory:* Barnes and Jarnis, Inc.

Address: 216 Tremont St., Boston, MA 02116, Contact: Albert Szezur, Phone: (617) 542-6521.

(9) *Laboratory:* Briggs Associates, Inc. (NIST).

Address: 400 Hingham St., Rockland, MA 02370, Contact: James Litrides, Phone: (617) 871-6040.

(10) *Laboratory:* Brooks Laboratories, Inc. (NIST).

Address: 44 Codfish Ln., Weston, CT 06883, Contact: Margaret Y. Brooks, Phone: (203) 226-6970.

(11) *Laboratory:* CON-TEST, Inc. (NIST).

Address: 39 Spruce St., East Longmeadow, MA 01028, Contact: Thomas E. Veratti, Phone: (413) 525-1198.

(12) *Laboratory:* CT State Dept. of Health Lab (NIST).

Address: 10 Clinton St., P.O. Box 1689, Hartford, CT 06106, Contact: Janet B. Kapish, Phone: (203) 566-5626.

(13) *Laboratory:* Certified Engineering & Testing Co., Inc. (NIST).

Address: 25 Mathewson Dr., Weymouth, MA 02189, Contact: Kevin Kelley, Phone: (617) 337-7887.

(14) *Laboratory:* Certified Engineering & Testing Co., Inc. of Rhode Island (NIST).

Address: 400 Smith St., Providence, RI 02908, Contact: Maria Stoeckel, Phone: (401) 831-9090.

(15) *Laboratory:* Chem Scope, Inc. (NIST).

Address: P.O. Box 389, Fair Haven Station, New Haven, CT 06513, Contact: Ronald D. Arena, Phone: (203) 468-0055.

(16) *Laboratory:* Covino Environmental Consultants, Inc. (NIST).

Address: 12 Walnut Hill Pk., Woburn, MA 01801, Contact: Samuel J. Covino, Jr., Phone: (617) 933-2555.

(17) *Laboratory:* Dennison Environmental, Inc. (NIST).

Address: 35 Industrial Pkwy., Woburn, MA 01801, Contact: James E. Dennison, Phone: (617) 932-9400.

(18) *Laboratory:* EHL (NIST), Division of Cigna Corp.

Address: 94 Murphy Rd., Hartford, CT 06114, Contact: Jim Kenny, Phone: (203) 522-3814.

(19) *Laboratory:* ESA Laboratories (NIST).

Address: 43 Wiggins Ave., Bedford, MA 01730, Contact: Reg Griffin, Phone: (617) 275-0100.

(20) *Laboratory:* Eastern Analytical Laboratories, Inc. (NIST).

Address: 149 Rangeway Rd., North Billerica, MA 01862, Contact: Robert MacDonald, Phone: (617) 272-5212.

(21) *Laboratory:* Enviro Research (NIST).

Address: 141 Prestige Park Rd., East Hartford, CT 06108, Contact: Arthur C. Cosmas, Phone: (203) 289-6493.

(22) *Laboratory:* Enviro-Lab, Inc. (NIST).

Address: 154 Grove St., Chicopee, MA 01020, Contact: Peter R. Tuttle, Phone: (413) 592-0030.

(23) *Laboratory:* Enviromed Services, Inc. (NIST).

Address: 25 Science Pk., New Haven, CT 06511, Contact: Joseph Pasquariello, Phone: (203) 786-5580.

(24) *Laboratory:* Environmental Associates, Inc. (NIST).

Address: 1222 Fairfield Ave., Bridgeport, CT 06605, Contact: Ralph Wrech, Phone: (203) 368-6064.

(25) *Laboratory:* Hunter Environmental Sciences, Inc. (NIST).

Address: 10 Lewis St., P.O. Box 289, Lincoln, MA 01773, Contact: W. Bruce Hunter, Phone: (617) 259-0800.

(26) *Laboratory:* Hygeia, Inc. (NIST).

Address: 303 Bear Hill Rd., Waltham, MA 02154, Contact: John R. Pilling, Phone: (617) 890-4999.

(27) *Laboratory:* Hygenix, Inc. (NIST).

Address: 40 Hoyt St., Stamford, CT 06905, Contact: Arthur Morris, Phone: (203) 324-2222.

(28) *Laboratory:* Hygienetics Analytical Services, Inc. (NIST).

Address: 150 Causeway St., Boston, MA 02114, Contact: Jack Yee, Sr., Phone: (617) 723-4664.

(29) *Laboratory:* Industrial Hygiene/New England (NIST).

Address: P.O. Box 1158, Kennebunk, ME 04043, Contact: Lori Burns, Phone: (207) 985-6110.

(30) *Laboratory:* Industrial Hygiene/New England, Inc. (NIST).

Address: 157 Park St., Bangor, ME 04401, Contact: Peter Noddin, Phone: (207) 947-6645.

(31) *Laboratory:* Kaselann & D'Angelo Associates, Inc. (NIST).

- Address: 500 Victory Rd., Suite 270, Marina Bay, MA 02171, Contact: Marianne Rogers, Phone: (617) 472-1330.
(32) *Laboratory*: MMR, Inc. (NIST).
- Address: P.O. Box 810, 241 West Boylston St., West Boylston, MA 01583, Contact: David Krashes, Phone: (617) 835-6262.
(33) *Laboratory*: Massachusetts Commonwealth (NIST), Div. of Occupational Hygiene.
- Address: 1001 Watertown St., West Newton, MA 02165, Contact: Patricia Circone, Phone: (617) 528-0635.
(34) *Laboratory*: Mystic Air Quality Consultants (NIST).
- Address: 1085 Buddington Rd., Groton, CT 06340, Contact: Christopher Eident, Phone: (203) 449-8903.
(35) *Laboratory*: New Hampshire Div. of Public Health (NIST), Public Health Laboratory.
- Address: 6 Hazen Dr., Concord, NH 03301, Contact: Veronica Malmberg, Phone: (603) 271-4657.
(36) *Laboratory*: Northeast Test Consultants (NIST).
- Address: 587 Spring St., Westbrook, ME 04092, Contact: Stephen Broadhead, Phone: (207) 854-3939.
(37) *Laboratory*: Norwich Laboratories, Inc. (NIST).
- Address: 750 North Pleasant St., Amherst, MA 01002, Contact: Nina Inchari, Phone: (413) 549-6884.
(38) *Laboratory*: R.I. Analytical Laboratories Inc. (NIST).
- Address: 1040 Mineral Spring Ave., North Providence, RI 02904, Contact: Scott Patefield, Phone: (401) 725-4190.
(39) *Laboratory*: Shelburne Laboratories, Inc. (NIST).
- Address: 74 Ethan Allen Dr., P.O. Box 9479, South Burlington, VT 05403, Contact: Robert J. Emerson, Phone: (802) 658-5798.
(40) *Laboratory*: TRC Environmental Consultants, Inc. (NIST).
- Address: 800 Connecticut Blvd., East Hartford, CT 06108, Contact: Paul Hunt, Phone: (203) 289-8631.
(41) *Laboratory*: Testwell Craig Labs of Connecticut, Inc. (NIST).
- Address: 25 Henry St., Bethel, CT 06801, Contact: Richard Speciale, Phone: (203) 743-7281.
(42) *Laboratory*: The Hartford Steam Boiler I & I Co. (NIST), Environmental Services Laboratory.
- Address: One State St., Hartford, CT 06102, Contact: Joanne Kovalanka, Phone: (203) 722-5476.
(43) *Laboratory*: The Travelers Insurance Companies (NIST).
- Address: 248 Constitution Plaza, Hartford, CT 01683, Contact: Anita Saughvi, Phone: (203) 277-3413.
EPA Accredited Commercial PLM Laboratories
REGION II—Edison, NJ
Regional Asbestos Coordinator: Arnold Freiburger, EPA, Region II, Woodbridge Ave., Raritan Depot, Bldg. 5, (MS-500), Edison, NJ 08837. (201) 321-6671, (FTS) 340-6671.
(1) *Laboratory*: ASBESCO, Inc. (NIST).
Address: 961 Lydell Ave., Bldg. 2, Suite 8, Rochester, NY 14606, Contact: Dmitry Tsimberov, Phone: (716) 647-2530.
(2) *Laboratory*: ASTECH, Inc. (NIST).
Address: 317 West Milton Ave., Rahway, NJ 07065, Contact: Michael Matarazzo, Phone: (201) 396-4455.
(3) *Laboratory*: ASTECO, Inc. (NIST).
Address: 4287 Witmer Rd., P.O. Box 2204, Niagara Falls, NY 14305, Contact: Fred Smith, Phone: (716) 297-5992.
(4) *Laboratory*: ATC Environmental, Inc. (NIST).
Address: 104 East 25th St., New York, NY 10010, Contact: Edwin Levin, Phone: (212) 353-8280.
(5) *Laboratory*: Adelaide Environmental Health Associates (NIST).
Address: 61 Front St, Binghamton, NY 13905, Contact: Gaig Benson, Phone: (607) 722-6839.
(6) *Laboratory*: Adelaide Environmental Health Associates (NIST).
Address: 845 North Broadway, Suite 200, White Plains, NY 10601, Contact: Ron Bielinski, Phone: (914) 949-3109.
(7) *Laboratory*: Adirondack Environmental Services (NIST).
Address: 298 Riverside Ave., P.O. Box 265, Rensselaer, NY 12144, Contact: Thomas Hare, Phone: (518) 785-0128.
(8) *Laboratory*: Alternative Ways, Inc./AEM, Inc. (NIST).
Address: P.O. Box 1147, 100 Essex Rd., Bellmawr, NJ 08031, Contact: John Luxford, Phone: (609) 933-1663.
(9) *Laboratory*: Ambient Labs, Inc. (NIST).
Address: 119 West 23rd St., New York, NY 10011, Contact: William A. Esposito, Phone: (212) 962-4242.
(10) *Laboratory*: American Testing Labs, Inc. (NIST).
Address: P.O. Box 102, Bronx, NY 10471, Contact: George Kan, Phone: (212) 796-4761.
(11) *Laboratory*: Applied Environmental Technology, Inc. (NIST).
- Address: 316 Cooper Center, Pennsauken, NJ 08109, Contact: Willard Kingsley, Phone: (609) 488-9200.
(12) *Laboratory*: Applied Geo Services, Inc. (NIST).
Address: 41 Union Square W, Suite 1125, New York, NY 10003, Contact: Jeffrey A. Forgang, Phone: (212) 633-1113.
(13) *Laboratory*: Asbestos Consultancy Service (NIST), Holiday Bldg.
Address: 121 State Highway 36, West Tong Branch, NJ 07764, Contact: George Forrest, Phone: (201) 571-1400.
(14) *Laboratory*: Assessment Technologies, Inc. (NIST).
Address: 323 W. 39th St., New York, NY 10018, Contact: Jay Sall, Phone: (212) 564-8222.
(15) *Laboratory*: Atlantic Environmental, Inc. (NIST).
Address: 2 East Blackwell St., Suite 24, Dover, NJ 07801, Contact: David Pearson, Phone: (201) 366-4660.
(16) *Laboratory*: Atlantic Environmental, Inc. (NIST).
Address: 239 Perrine Ave., Elberon, NJ 07801, Contact: James McVeigh, Phone: (201) 222-1157.
(17) *Laboratory*: Barnes & Jarnis, Inc. (NIST).
Address: 373 Park Ave. S, 11th Fl., New York, NY 10016-8865, Contact: Jay Holmes, Phone: (212) 532-6433.
(18) *Laboratory*: Brad Associates (NIST).
Address: 1 Rosanne Ct., Lake Ronkonkoma, NY 11779, Contact: Benito P. San Pedro, Phone: (516) 467-4539.
(19) *Laboratory*: Briggs Associates, Inc. (NIST).
Address: 361 Hanover St., Portsmouth, NJ 03801, Contact: Janice Smith, Phone: (603) 431-2870.
(20) *Laboratory*: Buck Engineering & Environmental Laboratory (NIST).
Address: 100 Tompkins St., Courtland, NY 13045, Contact: John H. Buck, Phone: (607) 753-3403.
(21) *Laboratory*: Buffalo Testing Labs., Inc. (NIST).
Address: 902 Kenmore Ave., Buffalo, NY 14216, Contact: Edward J. Kris, Phone: (716) 873-2302.
(22) *Laboratory*: Bulava Environmental, Inc. (NIST).
Address: 13 Hunt Club Rd., Belle Mead, NJ 08502, Contact: Edward J. Bulava, Phone: (201) 874-6207.
(23) *Laboratory*: Calibrations (NIST).

Address: 802 Watervliet Shaker Rd., Latham, NY 12210, Contact: Sascha Percent, Phone: (518) 786-1865.

(24) *Laboratory*: Certified Engineering & Testing Co. of Upstate New York, Inc. (NIST).

Address: 288 Genesee St., Utica, NY 13502, Contact: Mark S. Evans, Phone: (315) 732-3826.

(25) *Laboratory*: Chenango Environmental Laboratory, Inc. (NIST).

Address: 350 State St., Binghamton, NY 13901, Contact: Tim Sayers, Phone: (607) 723-8175.

(26) *Laboratory*: Clayton Environmental Consultants, Inc. (NIST).

Address: 160 Fieldcrest Ave., Raritan Center, Edison, NJ 08837, Contact: Lee Schumann, Phone: (201) 225-6040.

(27) *Laboratory*: Comprehensive Analytical Group (NIST).

Address: 147 Midler Park Dr., P.O. Box 254, Syracuse, NY 13206, Contact: Jeffrey Berry, Phone: (315) 432-0855.

(28) *Laboratory*: Dames & Moore (NIST).

Address: 12 Commerce Dr., Cranford, NJ 07016-1101, Contact: Margaret Lynch, Phone: (201) 272-8300.

(29) *Laboratory*: Detail Associates, Inc. (NIST).

Address: 310 Grand St., Engelwood, NJ 07631, Contact: Stephen A. Jaraczewski, Phone: (201) 569-6708.

(30) *Laboratory*: Eastern Analytical Services, Inc. (NIST).

Address: 4 Westchester Plaza, Elmsford, NY 10523-1601, Contact: Paul Stascavage, Phone: (914) 592-8380.

(31) *Laboratory*: Ecology & Environment, Inc. (NIST).

Address: 4285 Genesee St., Buffalo, NY 14225, Contact: Andrew Clifton, Phone: (716) 631-0360.

(32) *Laboratory*: Electron-Microscopy Service Laboratories, Inc. (NIST).

Address: 108 Haddon Ave., Westmont, NJ 08108, Contact: Peter Frasca, Phone: (609) 858-4800.

(33) *Laboratory*: Enviro-Probe, Inc. (NIST).

Address: 17 Heritage Dr., Edison, NJ 08820, Contact: Ved Kukreja, Phone: (201) 769-0274.

(34) *Laboratory*: Enviro-Probe, Inc. (NIST).

Address: 2917 Bruckner Blvd., Bronx, NY 10461, Contact: Ved Kukreja, Phone: (212) 863-0045.

(35) *Laboratory*: Environmental Management Systems, Inc. (NIST).

Address: 14 Sarafian Rd., New Paltz, NY 12561, Contact: Martin S. Rutstein, Phone: (914) 255-1034.

(36) *Laboratory*: Environmental Monitoring & Consulting Associates (NIST).

Address: P.O. Box 872, Somerville, NJ 08876, Contact: Joel Russell, Phone: (201) 249-3005.

(37) *Laboratory*: Exxon Biomedical Sciences, Inc. (NIST), IH Analytical Laboratory.

Address: Mettlers Rd., CN2350, East Millstone, NJ 08875-2350, Contact: John E. Stillman, Phone: (201) 873-6033.

(38) *Laboratory*: Friends Laboratory, Inc. (NIST).

Address: 446 Broad St., Waverly, NY 14892-1445, Contact: Douglas Friend, Phone: (607) 565-2893.

(39) *Laboratory*: Galson Technical Services (NIST).

Address: 8601 Kirkville Rd., East Syracuse, NY 13057, Contact: Joseph Unangst, Phone: (315) 432-0506.

(40) *Laboratory*: Hall-Kimbrell Environmental Services (NIST).

Address: 129-09 26th Ave., Flushing, NY 11354-1166, Contact: Robert Farley, Phone: (718) 445-9090.

(41) *Laboratory*: Hazardous Waste Engineering Consultants, Inc. (NIST).

Address: 47 Hudson St., Ossining, NY 10562, Contact: Marco Pedone, Phone: (914) 762-9000.

(42) *Laboratory*: Hillman Environmental Co. (NIST).

Address: 1089 Cedar Ave., Union, NJ 07083, Contact: Joseph P. Hillman, Phone: (201) 686-3335.

(43) *Laboratory*: Hoffman-La Roche, Inc. (NIST).

Address: 340 Kingsland St., Nutley, NJ 07110, Contact: Yacoub Doumato, Phone: (201) 235-3248.

(44) *Laboratory*: Hygeia, Inc. (NIST).

Address: 276 Fifth Ave., Suite 503, New York, NY 10001, Contact: Marianne Thorpe, Phone: (212) 545-7822.

(45) *Laboratory*: Independent Asbestos Labs, Inc. (NIST).

Address: 5900 Butternut Dr., East Syracuse, NY 13057, Contact: Fred Terracina, Phone: (315) 437-1122.

(46) *Laboratory*: Independent Testing & Consultation, Inc. (NIST).

Address: 386 Line Rd., P.O. Box 539, Holmdel, NJ 07733, Contact: Anthony Matthews, Phone: (201) 583-2538.

(47) *Laboratory*: Industrial Testing Laboratories (NIST).

Address: 50 Madison Ave., New York, NY 10010, Contact: Kenneth J. Kohlhof, Phone: (212) 685-8788.

(48) *Laboratory*: International Asbestos Testing Laboratories (IATL) (NIST).

Address: 36 North Pine Ave., Maple Shade, NJ 08052, Contact: Emil M. Ondra, Phone: (609) 779-7792.

(49) *Laboratory*: Kaselaan & D'Angelo Associates, Inc. (NIST).

Address: 515 Grove St., Haddon Heights, NJ 08035, Contact: Marianne Rogers, Phone: (609) 547-6500.

(50) *Laboratory*: Kemron Environmental Services (NIST).

Address: 755 New York Ave., Huntington, NY 11743, Contact: Patricia Kirkland, Phone: (516) 427-0950.

(51) *Laboratory*: Laboratory Testing Services, Inc. (NIST).

Address: 75 Urban Ave., Westbury, NY 11590, Contact: Brian Heneveld, Phone: (516) 334-7770.

(52) *Laboratory*: Lozier Laboratories (NIST).

Address: 23 North Main St., Fairport, NY 14450, Contact: Alan J. Laffin, Phone: (716) 223-0050.

(53) *Laboratory*: Moby II (NIST).

Address: 1615 9th Ave., Bohemia, NY 11716, Contact: Andrew Hiscock, Phone: (516) 467-8477.

(54) *Laboratory*: Monroe Monitoring & Analysis (NIST).

Address: 1425 Mt. Read Blvd., Rochester, NY 14606, Contact: Herbert Dohr, Phone: (716) 546-8580.

(55) *Laboratory*: NET Northeast, Inc. (NIST).

Address: 5854 Butternut Dr., East Syracuse, NY 13057, Contact: Conrad Teufel, Phone: (315) 446-8795.

(56) *Laboratory*: National Testing Laboratories, Inc. (NIST).

Address: 27-14 39th Ave., Long Island City, NY 11101, Contact: Allen Ross, Phone: (718) 784-2626.

(57) *Laboratory*: New York City, Dept. of Sanitation (NIST), Environmental Police Laboratory.

Address: 2253 Broadway, Suite 800, New York, NY 10007, Contact: Daniel Millstone, Phone: (212) 240-4800.

(58) *Laboratory*: Northeastern Analytical Corp. (NIST).

Address: Evesham Corporation Center, 4 East Stow Rd., Unit 10, Marlton, NJ 08053, Contact: William Dolan, Phone: (609) 651-1441.

(59) *Laboratory*: OBG Laboratories, Inc. (NIST).

Address: Box 4873, 1304 Buckley Rd., Syracuse, NY 13221, Contact: Michael Gerber, Phone: (315) 457-1494.

(60) *Laboratory*: Omega Laboratories, Inc. (NIST).

- Address: 127 Main St., Hackensack, NJ 07601, Contact: John C. Walton, Phone: (201) 393-5647.
- (61) *Laboratory*: PMK, Ferris, & Perricone, Inc. (NIST).
- Address: 516 Bloy St., Hillside, NJ 07205, Contact: James Ferris, Phone: (201) 686-0044.
- (62) *Laboratory*: Pedneault Associates, Inc. (NIST).
- Address: 1615 9th Ave., Bohemia, NY 11716, Contact: John Pedneault, Phone: (516) 467-8477.
- (63) *Laboratory*: Perritt Laboratories, Inc. (NIST).
- Address: 145 South Main St., PO Box 147, Hightstown, NJ 08520, Contact: Richard Ward, Phone: (609) 443-4848.
- (64) *Laboratory*: Powell Environmental Services, Inc. (NIST).
- Address: Suite 9A, Camp Meeting Grounds, Delanco, NJ 08075, Contact: Michael D. Moschella, Phone: (609) 764-8886.
- (65) *Laboratory*: Princeton Testing Laboratory (NIST).
- Address: P.O. Box 3108, Princeton, NJ 08540, Contact: David Kichula, Phone: (609) 452-9050.
- (66) *Laboratory*: Professional Service Ind., Inc. (NIST).
- Address: 423A New Karner Rd., Albany, NY 12205, Contact: Samuel Battaglia, Phone: (518) 452-0777.
- (67) *Laboratory*: Public Service Testing Laboratories, Inc. (NIST).
- Address: 37-31 57th St., Woodside, NY 11377, Contact: Stephen DiMartino, Phone: (718) 476-9202.
- (68) *Laboratory*: R-C-G BOCES Risk Management Services Lab (NIST).
- Address: Brookview Rd., P.O. Box 26, Brookview, NY 12026, Contact: Rajender Abraham, Phone: (518) 732-7266.
- (69) *Laboratory*: R.J. Lee Group, Inc. (NIST).
- Address: 1741 Baseline Rd., Grand Island, NY 14072, Contact: Kuldrip Chopra, Phone: (716) 773-7625.
- (70) *Laboratory*: Suffolk County Public & Env. Health Lab. (NIST).
- Address: Veterans Memorial Hwy., Building 77, Hauppauge, NY 11788, Contact: Ronald Huttie, Phone: (516) 360-5528.
- (71) *Laboratory*: TAKA Asbestos Analytical Services, Inc. (NIST) Environmental Testing.
- Address: 8 Pine Hill Court, Northport, NY 11768, Contact: Thomas Kubic, Phone: (516) 261-2117.
- (72) *Laboratory*: Testwell Craig Lab, Inc. (NIST).
- Address: 47 Hudson St., Ossining, NY 10562, Contact: Marco J. Pedone, Phone: (914) 736-1776.
- (73) *Laboratory*: Testwell Craig Laboratories of Albany, Inc. (NIST).
- Address: 518 Clinton Ave., Albany, NY 12206, Contact: Stanley P. Purzycki, Phone: (518) 436-4114.
- (74) *Laboratory*: Testwell Craig Laboratories, Inc. (NIST).
- Address: 50 Passaic Ave., Fairfield, NJ 07006, Contact: Tony Poraello, Phone: (201) 882-8377.
- (75) *Laboratory*: Testwell Craig Peters, Inc. (NIST).
- Address: 127 Seeley Rd., Syracuse, NY 13224, Contact: Walter Peters, Phone: (315) 446-0008.
- (76) *Laboratory*: Testwell Craig Testing Laboratories (NIST).
- Address: 565 East Jarding Hwy., P.O. Box 477, Mays Landing, NJ 08330, Contact: James Kelly, Phone: (609) 625-1700.
- (77) *Laboratory*: The Analytical Lab (NIST), Safety and Brookhaven National Lab.
- Address: Bldg. 535A, Upton, NY 11973, Contact: Jana Kiram Naidu, Phone: (516) 282-4263.
- (78) *Laboratory*: U.S. Testing Company, Inc., Environmental Sciences Division (NIST).
- Address: 1415 Park Ave., Hoboken, NJ 07030, Contact: Ellen McCabe Noyes, Phone: (201) 792-2400.
- EPA Accredited Commercial PLM Laboratories
- REGION III—Philadelphia, PA*
- Regional Asbestos Coordinator*: Carole Dougherty, EPA, Region III (3HW-42), 841 Chestnut Bldg., Philadelphia, PA 19107. (215) 597-3160, (FTS) 597-3160.
- (1) *Laboratory*: AGX, Inc. (NIST).
- Address: Freedom Professional Bldg., 1341 Old Freedom Rd., Suite 3B, Mars, PA 16046, Contact: Kimberly Allison, Phone: (412) 776-1905.
- (2) *Laboratory*: AMA Analytical Services (NIST).
- Address: 4475 Forbes Blvd., Lanham, MD 20706, Contact: Len Burrelli, Phone: (800) 459-2640.
- (3) *Laboratory*: ASBESTECH Division of AH and M Carolina, Inc. (NIST).
- Address: P.O. Box 98, Dunbar, WV 25064, Contact: Orvie Nicholson, Phone: (304) 766-6224.
- (4) *Laboratory*: ATEC Associates of Virginia, Inc. (NIST).
- Address: 2551 Eltham Ave., Suite Z, Norfolk, VA 23513, Contact: Richard A. Vogel, Jr., Phone: (804) 857-6765.
- (5) *Laboratory*: ATEC Associates, Inc. (NIST), Industrial Hygiene Division.
- Address: 8989 Herrmann Dr., Columbia, MD 21045-8780, Contact: Paul A. Esposito, Phone: (301) 381-0232.
- (6) *Laboratory*: Academy of IRM, Inc. (NIST).
- Address: 1600 Winchester Rd., Annapolis, MD 21401, Contact: Bobby Leonard, Phone: (301) 757-7887.
- (7) *Laboratory*: Accredited Environmental Technologies, Inc. (NIST).
- Address: 28 North Pennell Rd., Lima, PA 19037, Contact: Jack Carney, Phone: (215) 891-0114.
- (8) *Laboratory*: Advanced Analytical Laboratories, Inc. (NIST).
- Address: 30th & North Church St., Hazelton, PA 18201, Contact: Thomas Martinelli, Phone: (717) 455-5115.
- (9) *Laboratory*: Air Quality Analysis Associates (NIST).
- Address: 1337 Perry Ave., Morgantown, WV 26505, Contact: John T. Jankovic, Phone: (304) 599-0023.
- (10) *Laboratory*: Allegheny Asbestos Analysis, Inc. (NIST).
- Address: 300 Mt. Lebanon Blvd., Suite 2217, Pittsburgh, PA 15234, Contact: Tammy Nagel, Phone: (412) 563-3744.
- (11) *Laboratory*: Allegheny Mountain Research (NIST), Occupational Health Division.
- Address: RD 1, Box 243A, Berlin, PA 15530-9546, Contact: Victor Kawchak, Phone: (814) 267-4404.
- (12) *Laboratory*: Altest Environmental Labs (NIST).
- Address: 28 West Main St., Plymouth, PA 18651, Contact: Frank Egenski, Phone: (717) 779-5377.
- (13) *Laboratory*: American Medical Laboratories, Inc. (NIST).
- Address: 11091 Main St., Fairfax, VA 22030, Contact: Elsie Sharon, Phone: (703) 691-9100.
- (14) *Laboratory*: American Medical Laboratories, Inc. (NIST).
- Address: 2000 Breomo Rd., Suite 204, Richmond Medical Park, Richmond, VA 23226, Contact: Alton Bartlett, Phone: (703) 691-9100.
- (15) *Laboratory*: Analytics (NIST).
- Address: P.O. Box 25249, Richmond, VA 23260, Contact: James Calpin, Phone: (804) 353-8973.
- (16) *Laboratory*: Analytics Laboratory, Inc. (NIST), Subs. of Roche Biomedical Laboratories Inc.
- Address: 205 South Whiting St., Suite 405, Alexandria, VA 22304, Contact: Eugene Buie, Phone: (703) 751-3803.

- (17) *Laboratory*: Analytics Laboratory, Inc. (NIST), Subs. of Roche Biomedical Laboratories, Inc.
Address: 4625 Pembroke Lake Cir., Virginia Beach, VA 23455, Contact: Christie Buie, Phone: (804) 857-0675.
- (18) *Laboratory*: Apex Environmental, Inc. (NIST).
Address: 7652 Standish Pl., Rockville, MD 20855, Contact: Frank G. Fitzpatrick, Phone: (301) 217-9200.
- (19) *Laboratory*: Applied Environmental Health & Safety Inc. (NIST).
Address: Reston International Center, 11800 Sunrise Valley Dr., Suite 1230, Reston, VA 22091, Contact: Jana Ambrose, Phone: (703) 648-0822.
- (20) *Laboratory*: BCM Engineers, Inc. (NIST).
Address: 1850 Gravers Rd., Norristown, PA 19401, Contact: Linda Cox, Phone: (215) 275-0281.
- (21) *Laboratory*: BCM Engineers, Inc. (NIST).
Address: 5777 Baum Blvd., Pittsburgh, PA 15206, Contact: Paul Jadlowiec, Phone: (412) 361-6000.
- (22) *Laboratory*: BCM Engineers, Inc.—Potomac (NIST).
Address: 600 W. Service Road, Suite 320, Washington, DC 20041, Contact: Nathan Williamson, Phone: (703) 260-0060.
- (23) *Laboratory*: Baltta Environmental Associates (NIST).
Address: Delaware Industrial Park, 6 Garfield, Way, Newark, DE 19713-3540, Contact: Steve Cahill, Phone: (302) 737-3376.
- (24) *Laboratory*: Biospherics, Inc. (NIST).
Address: 12051 Indian Creek Ct., Beltsville, MD 20705, Contact: Lori Sletten, Phone: (301) 369-3900.
- (25) *Laboratory*: Blue Ridge Analytical (NIST).
Address: 202 Bishop Rd., Blacksburg, VA 24060, Contact: David Violette, Phone: (703) 951-9283.
- (26) *Laboratory*: Briggs Associates, Inc. (NIST).
Address: 8300 Guilford Rd., Suite E, Columbia, MD 21046, Contact: J. Ross Voorhees, Phone: (301) 381-4434.
- (27) *Laboratory*: Brujos Scientific, Inc. (NIST).
Address: 505 Drury Ln., Baltimore, MD 21229, Contact: Robert Olcerst, Phone: (301) 566-0859.
- (28) *Laboratory*: Canitech, Inc. (NIST).
Address: Mcknight-Ivory Bldg., Suite 202, 4550 McKnight Rd., Pittsburg, PA 15237, Contact: Carol McKee, Phone: (412) 931-1210.
- (29) *Laboratory*: Cumberland Analytical Labs., Inc. (NIST).
Address: 56 North Second St., Chambersburg, PA 17201, Contact: D. R. Richner, Jr., Phone: (717) 263-5943.
- (30) *Laboratory*: Eagle Industrial Hygiene Association Incorporated (NIST).
Address: 405 Masons Mill Rd., Huntingdon, PA 19006, Contact: Keith Crawford, Phone: (215) 657-2261.
- (31) *Laboratory*: Environmental Testing, Inc. (NIST).
Address: 100 S. Cass Street, Middletown, DE 19709, Contact: Gary Hayes, Phone: (302) 378-9881.
- (32) *Laboratory*: Environmental Laboratories, Inc. (NIST).
Address: 9211 Burge Ave., Richmond, VA 23237, Contact: Terry Hall, Phone: (804) 271-3440.
- (33) *Laboratory*: FREE-COL Laboratories (NIST).
Address: Cotton Rd., P.O. Box 557, Meadville, PA 16335-0557, Contact: J. Richard Wohler, Phone: (814) 724-6242.
- (34) *Laboratory*: Galson Technical Services, Inc. (NIST).
Address: 5170 Campus Dr., Suite 200, Plymouth Meeting, PA 19462, Contact: Pamela Weaver, Phone: (215) 834-7288.
- (35) *Laboratory*: Gannett Fleming Environmental Laboratory (NIST).
Address: 209 Senate Ave., Camp Hill, PA 17011, Contact: David W. Lane, Phone: (717) 763-7211.
- (36) *Laboratory*: Geo-Environmental Services, Inc. (NIST).
Address: 18928 Germantown Rd., Germantown, MD 20874, Contact: John T. Razzolini, Phone: (301) 353-0338.
- (37) *Laboratory*: HBI-USA (NIST).
Address: 10378 Democracy Lane, Fairfax, VA 22030, Contact: Peter Binnie, Phone: (703) 352-0102.
- (38) *Laboratory*: Havens Laboratories, Inc. (NIST).
Address: 1130 East Market Street, Charlottesville, VA 22901, Contact: Stanley Havens, Phone: (804) 293-6000.
- (39) *Laboratory*: I-TEM, Ltd. (NIST).
Address: North Lake Commerce Center, 12850 Middlebrook Rd., P.O. Box 1060, Germantown, MD 20874, Contact: Jorge Rangel, Phone: (301) 353-0585.
- (40) *Laboratory*: Interscience Research, Inc. (NIST).
Address: 2614 Wyoming Ave., Norfolk, VA 23513, Contact: Joseph Guth, Phone: (804) 853-8813.
- (41) *Laboratory*: JACA Corporation (NIST).
Address: 550 Pinetown Rd., Fort Washington, PA 19034, Contact: Robert Schlosser, Phone: (215) 643-5466.
- (42) *Laboratory*: Lancaster Laboratories, Inc. (NIST).
Address: 2425 New Holland Ave., Lancaster, PA 17601, Contact: Barbara J. Weaver, Phone: (717) 656-2301.
- (43) *Laboratory*: Law Engineering (NIST).
Address: 4465 Brookfield Corporate Dr., Chantilly, VA 22021, Contact: Philip Janney, Phone: (703) 966-4700.
- (44) *Laboratory*: Lehigh Valley Analytics, Inc. (NIST).
Address: 60 West Broad St., Bethlehem, PA 18018, Contact: Barbara J. Davies, Phone: (215) 866-4434.
- (45) *Laboratory*: MDS Laboratories (NIST).
Address: 4418 Pottsville Pike, Reading, PA 19605, Contact: Fred Usbeck, Phone: (215) 921-9191.
- (46) *Laboratory*: Marine Chemist Service, Inc. (NIST).
Address: 11850 Tug Boat Ln., Newport News, VA 23606, Contact: Colleen Becker, Phone: (804) 873-0933.
- (47) *Laboratory*: Medlab, Inc. (NIST).
Address: P.O. Box 2045, Wilmington, DE 19899, Contact: Sevag Sinanian, Phone: (302) 994-5764.
- (48) *Laboratory*: Microbac Laboratories (NIST), Erie Testing Laboratory Division.
Address: 2411 West 26th Street, Erie, PA 16506, Contact: Michael McElhinny, Phone: (814) 833-4790.
- (49) *Laboratory*: Microbac Mid-Atlantic (NIST).
Address: 5908 Jefferson Avenue, Newport News, VA 23605, Contact: Anthony Creech, Phone: (804) 874-4930.
- (50) *Laboratory*: Mountaineer Testing Laboratories, Inc. (NIST).
Address: 425 North Jefferson, P.O. Box 767, Lewisburg, WV 24901, Contact: Rob Dillon, Phone: (304) 645-7114.
- (51) *Laboratory*: Occupational Medical Center Lab (NIST).
Address: 4451 Parliament Pl., Lanham, MD 20706, Contact: Christopher Beza, Phone: (301) 308-0632.
- (52) *Laboratory*: Oneil M. Banks, Inc. (NIST).
Address: 336 South Main St., Bel Air, MD 21014, Contact: Michelle L. Evans, Phone: (301) 879-4676.
- (53) *Laboratory*: Pacific Environmental Services, Inc. (NIST).

- Address: 11440 Isaac Newton Sq., Suite 205, Reston, VA 22090, Contact: John Mazur, Phone: (703) 471-8383.
(54) *Laboratory*: Paleozoic Hydrocarbon Industries, Asbestos Lab Division of PHI (NIST).
- Address: 132 Oakwood Rd., Charleston, WV 25314, Contact: S. M. Spencer, Jr., Phone: (304) 342-6424.
(55) *Laboratory*: Pennrun Corporation (NIST).
- Address: 150 William Pitt Way, Pittsburgh, PA 15238, Contact: Valerie McDonald, Phone: (412) 826-5304.
(56) *Laboratory*: Pennsylvania Commonwealth.
- Address: 2221 Forster St. Rm.G28, Rm. G28, Harrisburg, PA 17125, Contact: John Fisher, Phone: (717) 787-3862.
(57) *Laboratory*: Professional Service Ind., Inc. (NIST), Pittsburgh Testing Lab Division.
- Address: 850 Poplar St., Pittsburgh, PA 15220, Contact: Bruce Erdner, Phone: (412) 922-4000.
(58) *Laboratory*: R.J. Lee Group (NIST).
- Address: 350 Hochberg Rd., P.O. Box 278, Monroeville, PA 15146, Contact: Ian Stewart, Phone: (412) 325-1776.
(59) *Laboratory*: R.J. Lee Group (NIST).
- Address: 10366 Battleview Pkwy., Manassas, VA 22110, Contact: Tom Dagenhart, Phone: (703) 368-7880.
(60) *Laboratory*: SSI Environmental Consultants (NIST).
- Address: Expressway Pk., Gulf Lab Rd.—Harmarville, Pittsburgh, PA 15238, Contact: George M. Beck, Phone: (412) 828-9210.
(61) *Laboratory*: Schneider Laboratories, Inc. (NIST).
- Address: 1427 West Main St., Richmond, VA 23220-4629, Contact: Richard F. Schneider, Phone: (804) 353-6778.
(62) *Laboratory*: Scientific & Environmental Analytical Svcs, Inc. (SEAS) (NIST).
- Address: 202 Bishop Rd., Blacksburg, VA 23220, Contact: David Violette, Phone: (703) 951-9283.
(63) *Laboratory*: Spotts, Stevens, & McCoy (NIST).
- Address: 345 North Wyomissing Blvd., Wyomissing, PA 19610, Contact: Steven Delp, Phone: (215) 376-6581.
(64) *Laboratory*: Structure Probe, Inc. (NIST).
- Address: 535 East Gay St., P.O. Box 656, West Chester, PA 19381-0656, Contact: Kim Royer, Phone: (215) 436-5400.
(65) *Laboratory*: TC Analytics, Inc. (NIST).
- Address: 1200 Boissevoir Ave., Norfolk, VA 23507, Contact: Steven Long, Phone: (804) 627-0400.
(66) *Laboratory*: Tracor Technology Resources, Inc. (NIST).
- Address: 1601 Research Blvd., Rockville, MD 20850, Contact: Stephen Olin, Phone: (301) 964-2751.
(67) *Laboratory*: Versar, Inc. (NIST).
- Address: 6650 Versar Center, Springfield, VA 22151, Contact: Marcie Wilson, Phone: (703) 750-3000.
(68) *Laboratory*: Volz Environmental Services (NIST).
- Address: 3010 William Pitt Way, Pittsburgh, PA 15238, Contact: George J. Skarupa, Phone: (412) 826-3150.
(69) *Laboratory*: Washington Analytical Lab of VA, Inc. (Mobile Unit) (NIST).
- Address: 14214 Coda Place, Chantilly, VA 22021, Contact: Hugh Granger, Phone: (703) 631-6870.
(70) *Laboratory*: Washington Analytical Laboratory, Inc. (NIST).
- Address: 14214 Coda Place, Chantilly, VA 22021, Contact: R. Hugh Granger, Phone: (703) 631-6868.
(71) *Laboratory*: Wright Lab Services, Inc. (NIST).
- Address: 34 Dogwood Ln., Middletown, PA 17057, Contact: Francine Walker, Phone: (717) 944-5541.
- EPA Accredited Commercial PLM Laboratories
- REGION IV—Atlanta, GA
- Regional Asbestos Coordinator*: Liz Wilde, EPA, Region IV, 345 Courtland St., NE, (4APT-PT), Atlanta, GA 30365. (404) 347-5014, (FTS) 257-5014.
(1) *Laboratory*: ATEC Associates, Inc. (NIST).
- Address: 129 West Valley Ave., Birmingham, AL 38209, Contact: David Yates, Phone: (205) 945-9224.
(2) *Laboratory*: ATEC Associates, Inc. (NIST).
- Address: 4845 Rosselle St., Jacksonville, FL 32205, Contact: Doug Carvel, Phone: (904) 387-6404.
(3) *Laboratory*: ATEC Associates, Inc. (NIST).
- Address: 2990 Northwest 40 St., Miami, FL 33142, Contact: Michael H. Straube, Phone: (305) 633-2700.
(4) *Laboratory*: ATEC Associates, Inc. (NIST), Environmental Services Division.
- Address: 1300 Williams Dr., Marietta, GA 30066-6299, Contact: Dwayne Cheatom, Phone: (404) 427-9456.
(5) *Laboratory*: ATEC Environmental Consultants (NIST).
- Address: 1535 North Cogswell St., Suite A-5, Rockledge, FL 32955, Contact: Harry L. Capadano, Jr., Phone: (407) 631-6561.
(6) *Laboratory*: Advanced Industrial Hygiene Services, Inc. (NIST).
- Address: 2131 Southwest 2nd Ave., Miami, FL 33129, Contact: Bruce Marchette, Phone: (305) 854-7554.
(7) *Laboratory*: American Microscopy Laboratory (NIST).
- Address: 29 Heritage Hills, Tuscaloosa, AL 35406, Contact: M. A. Beg, Phone: (205) 345-2555.
(8) *Laboratory*: Analytical & Forensic Associates (NIST).
- Address: 1913 Capri Dr., Huntsville, AL 35811, Contact: John Kilbourne, Phone: (205) 533-3188.
(9) *Laboratory*: Analytical Management, Inc. (NIST).
- Address: P.O. Box 11279, Lexington, KY 40574, Contact: David H. McRae, Phone: (606) 231-6511.
(10) *Laboratory*: Apollo Environmental, Inc. (NIST).
- Address: 11553 U.S. Highway 41 South, Gibsonton, FL 33534-9720, Contact: Patricia Craig, Phone: (813) 671-3999.
(11) *Laboratory*: Applied Environmental Testing Lab, Inc. (NIST).
- Address: 680 Thornton Way, Suite 202, Lithia Springs, GA 30057, Contact: Ali A. Hassani Pak, Phone: (404) 940-4919.
(12) *Laboratory*: Applied Technical Services (NIST).
- Address: 1190 Atlanta Industrial Dr., Marietta, GA 30066, Contact: Laurel V. Waters, Phone: (404) 423-1400.
(13) *Laboratory*: Asbestos Analysis and Information Service (NIST).
- Address: P.O. Box 837, Fair Oaks, NC 27524, Contact: Kathy Westbrook, Phone: (919) 894-2804.
(14) *Laboratory*: Azimuth, Inc. (NIST).
- Address: P.O. Box 71904, Charleston, SC 29415-1904, Contact: Charles B. Stoye, Phone: (803) 553-9456.
(15) *Laboratory*: BCM Engineers, Inc. (NIST).
- Address: 104 St. Francis St., Suite 400, Mobile, AL 36693, Contact: Sheri Sims, Phone: (205) 433-0517.
(16) *Laboratory*: Bonner Analytical Testing Co. (NIST).
- Address: Rt. 14, Box 509, Hattiesburg, MS 39402, Contact: Michael Bonner, Phone: (601) 264-2854.
(17) *Laboratory*: Briggs Associates, Inc. (NIST).
- Address: 4401 Vineland Rd., Suite A9, Orlando, FL 32811, Contact: William Newman, Phone: (407) 422-3522.

(18) *Laboratory*: Broward County Environmental Quality Control Board (NIST).

Address: 500 S.W. 14th Court, Ft. Lauderdale, FL 33315, Contact: Kenneth Larson, Phone: (305) 765-5881.

(19) *Laboratory*: CRU, Inc. (NIST).
Address: P.O. Box 24467, Louisville, KY 40224, Contact: Donna M. Ringo, Phone: (502) 426-8860.

(20) *Laboratory*: Carolina Environmental (NIST).
Address: 5104 Suite 201-C Western Blvd., Raleigh, NC 27606, Contact: Dale King, Phone: (919) 859-0477.

(21) *Laboratory*: Cavin Analytical Consultants (NIST).

Address: 2165-k West Park Ct., Stone Mountain, GA 30087-3547, Contact: Joy Cavin, Phone: (404) 498-8295.

(22) *Laboratory*: Certified Engineering and Testing Co., Inc. (NIST).

Address: 5175 Elmore Rd. Suite 1, Memphis, TN 38134, Contact: Sharon Frase, Phone: (901) 382-6282.

(23) *Laboratory*: Chem-Ray (NIST).
Address: P.O. Box 821, Florence, AL 35631, Contact: James D. Ray, Phone: (205) 776-4345.

(24) *Laboratory*: Chemalytics (NIST).
Address: 300 Doctors Bldg., 33 East Seventh St., Covington, KY 41011, Contact: Kenneth P. Reed, Phone: (606) 431-8224.

(25) *Laboratory*: Clayton Environmental Consultants, Inc. (NIST).

Address: 400 Chastain Center Blvd., NW, Suite 490, Kennesaw, GA 30144, Contact: Owen Crankshaw, Phone: (404) 499-7500.

(26) *Laboratory*: Davis & Floyd, Inc. (NIST).

Address: P.O. Drawer 428, Greenwood, SC 29648, Contact: William J. Day, Phone: (803) 229-5211.

(27) *Laboratory*: EEC, Inc. (NIST).
Address: 2245 North Hills Dr., Suite J, Raleigh, NC 27612, Contact: Mike Scrimanker, Phone: (919) 782-8910.

(28) *Laboratory*: EEC, Inc. (NIST).
Address: 500 Rivermont Rd., P.O. Box 11847, Columbia, SC 29210, Contact: Kevin Ulmer, Phone: (803) 256-7846.

(29) *Laboratory*: EMSL, Inc. (NIST).
Address: 1800 Peachtree St., NW, Suite 305, Atlanta, GA 30309, Contact: John Scarano, Phone: (404) 858-4800.

(30) *Laboratory*: Ecosafe, Inc. (NIST).
Address: 1713 Chapel Hill Rd., Durham, NC 27707, Contact: Steven L. Goode, Phone: (919) 493-2612.

(31) *Laboratory*: Enviro-Chem, Inc. (NIST).

Address: 762 Downtowner Loop W., Mobile, AL 36609, Contact: Charles Smilie, Phone: (205) 344-7711.

(32) *Laboratory*: EnviroSciences, Inc. (NIST).

Address: Montgomery Bldg., Suite 705, P.O. Box 5804, Spartanburg, SC 29304, Contact: Andrew G. Schauder, Phone: (803) 585-4900.

(33) *Laboratory*: Environmental Analytical Labs (NIST).

Address: Cobb Corporate Center/300, 350 Franklin Rd., Marietta, GA 30067, Contact: Jeremy A. Armstrong, Phone: (404) 425-9901.

(34) *Laboratory*: Environmental Health Laboratory (EHL) (NIST), Cigna Loss Control Services.

Address: 3920 Arkwright Rd., Macon, GA 31213, Contact: Jeanne Gibbs, Phone: (912) 471-4544.

(35) *Laboratory*: Environmental Laboratories, Inc. (NIST).

Address: 2496-C Tuckerstone Pkwy., Tucker, GA 30084, Contact: Charles Zollner, Phone: (404) 938-6819.

(36) *Laboratory*: Environmental Materials Consultants (NIST).

Address: P.O. Box 100161, 2217 10th Ct. S., Suite 200, Birmingham, AL 35210, Contact: Denny Stapp, Phone: (205) 933-0400.

(37) *Laboratory*: Environmental Materials Consultants (NIST).

Address: 492 South Court St., Montgomery, AL 36103, Contact: W. Hynes Kelley, Phone: (205) 265-4000.

(38) *Laboratory*: Environmental Protection Systems, Inc. (NIST).

Address: 7215 Pine Forest Rd., Pensacola, FL 32506, Contact: Don Gay, Phone: (904) 944-0301.

(39) *Laboratory*: Environmental Protection Systems, Inc. (NIST).

Address: 5360 I-55 North, P.O. Box 20382, Jackson, MS 39209, Contact: Herbert Johnston, Phone: (601) 956-1400.

(40) *Laboratory*: Envirosciences, Inc. (NIST).

Address: 3810-F Merton Dr., Raleigh, NC 27609, Contact: E. R. Childress, Phone: (919) 782-1487.

(41) *Laboratory*: Evans Environmental & Geological Science (NIST).

Address: 2631 SW 27th St., Coconut Grove, FL 33133, Contact: Charles Evans, Phone: (305) 856-7458.

(42) *Laboratory*: Fiber Lab, Inc. (NIST).

Address: P.O. Box 36726, Birmingham, AL 35236, Contact: David Hayes, Phone: (205) 822-8544.

(43) *Laboratory*: GSC Environmental Laboratories, Inc. (NIST).

Address: 1824 Bi Wylds Rd., Augusta, GA 30909, Contact: Dan Troutman, Phone: (404) 737-0185.

(44) *Laboratory*: Geo-Environmental Services, Inc. (NIST).

Address: 141 West Wieuca Rd., Suite 200A, Atlanta, GA 30342, Contact: Susan Harper, Phone: (404) 257-9303.

(45) *Laboratory*: Harmon Engineering Associates, Inc. (NIST).

Address: 1550 Pumphrey Ave., Auburn, AL 36830-4399, Contact: Roger Thompson, Phone: (205) 821-9250.

(46) *Laboratory*: Health & Hygiene, Inc. (NIST).

Address: 4605-E Dundas Dr., Greensboro, NC 27407, Contact: Sharon P. Lonon, Phone: (919) 854-2303.

(47) *Laboratory*: Hillmann Environmental Co. of Florida (NIST).

Address: 12108 N. 56th St., Tampa, FL 33617, Contact: Mary Hillmann, Phone: (813) 988-1652.

(48) *Laboratory*: Hunter Services, Inc. (NIST).

Address: 14220 W. Newberry Rd., P.O. Box ESE, Gainesville, FL 32607-1703, Contact: Barbara Ross, Phone: (904) 332-3318.

(49) *Laboratory*: International Abatement Management, Inc. (NIST).

Address: 550 North Reo St., Suite 300, Tampa, FL 33609, Contact: Robert B. Greene, Phone: (813) 287-5100.

(50) *Laboratory*: KNL Laboratory Services (NIST).

Address: P.O. Box 1833, Tampa, FL 33601, Contact: Garrett J. McGibbon, Phone: (813) 229-2879.

(51) *Laboratory*: Larron Laboratory (NIST).

Address: 711 Broadway, Mayfield, KY 42066, Contact: Daniel Roth, Phone: (502) 247-6982.

(52) *Laboratory*: Law Associates, Inc. (NIST).

Address: 114 Town Park Dr., Kennesaw, GA 30144, Contact: Greg Lewars, Phone: (404) 499-8600.

(53) *Laboratory*: Law Engineering (NIST).

Address: 4919 West Laurel St., P.O. Box 24183, Tampa, FL 33623, Contact: Monte Hall, Phone: (813) 879-0750.

(54) *Laboratory*: Law Engineering Testing Co. (NIST).

Address: 501 Minuet Ln., P.O. Box 11297, Charlotte, NC 28220, Contact: R. Glenn Craig, Phone: (704) 523-2022.

(55) *Laboratory*: Law Engineering, Inc. (NIST).

- Address: 3608 7th Ct., S., P.O. Box 10244, Birmingham, AL 35202, Contact: R. Michael Hamilton, Phone: (205) 252-9901.
(56) *Laboratory: Materials Analytical Services, Inc. (NIST).*
- Address: 3597 Parkway Ln., Suite 250, Norcross, GA 30092, Contact: William Longo, Phone: (404) 448-9030.
(57) *Laboratory: McCrone Environmental Services, Inc. (NIST).*
- Address: 1412 Oakbrook Dr., Suite 100, Norcross, GA 30093, Contact: Harriette A. Hurley, Phone: (404) 368-9600.
(58) *Laboratory: Metro Services Laboratory (NIST), Asbestos Control Division.*
- Address: 6309 Fern Valley Pass, Louisville, KY 40228, Contact: Zonetta English, Phone: (502) 964-0365.
(59) *Laboratory: Micro Analytical Laboratories, Inc. (NIST).*
- Address: 3618 Northwest 97th Blvd., Gainesville, FL 32606, Contact: Nancy Dehgan, Phone: (904) 332-1701.
(60) *Laboratory: Micro-methods, Inc. (NIST).*
- Address: 6500 Sunplex, Ocean Springs, MS 39564, Contact: Thomas J. Wilson, Phone: (601) 875-6420.
(61) *Laboratory: NSI-ES Analytical Svcs. Lab (NIST).*
- Address: 2 Triangle Dr., P.O. Box 12313, RTP, NC 27709-2313, Contact: James A. Jahnke, Phone: (919) 549-0611.
(62) *Laboratory: PSC Environmental, Inc. (NIST).*
- Address: 1105 Fitzpatrick Ave., P.O. Box 2605, Opelika, AL 36803-2605, Contact: Fred Moore, Phone: (205) 749-2636.
(63) *Laboratory: Pace Laboratories, Inc. (NIST).*
- Address: 5460 Esauumont Center Blvd., Tampa, FL 33634, Contact: Timothy M. Odell, Phone: (813) 884-8268.
(64) *Laboratory: Pensacola P.O.C., Inc. (NIST).*
- Address: 109 South 2nd St., Pensacola, FL 32507, Contact: Barbara Svinglin, Phone: (904) 456-4406.
(65) *Laboratory: Phoenix Environmental Labs (NIST), Division of P.D.R. Engineers, Inc.*
- Address: 2000 Lindell Ave., Nashville, TN 37203, Contact: Teresa Tichenor, Phone: (615) 298-2065.
(66) *Laboratory: Pioneer Laboratory, Inc. (NIST).*
- Address: 11 East Olive Rd., Pensacola, FL 32514, Contact: Paul Canevaro, Phone: (904) 474-1001.
(67) *Laboratory: Professional Service Ind., Inc. (NIST), PTL/Arribas Division.*
- Address: 3901 Northwest 29th Ave., Miami, FL 33142, Contact: Mary E. Hamel, Phone: (305) 633-7555.
(68) *Laboratory: Quality Analytical Services, Inc. (NIST).*
- Address: 708 West Johnson St., Raleigh, NC 27603, Contact: Eloise Sheets, Phone: (919) 839-0757.
(69) *Laboratory: Roberts Environmental Services (NIST), MAKO Office Complex.*
- Address: Highway 24 E., Swansboro, NC 28584, Contact: H. Dan Roberts, Phone: (919) 393-6565.
(70) *Laboratory: Safety Underwriters Laboratory (NIST).*
- Address: P.O. Box 20094, Birmingham, AL 35216, Contact: Rebecca Hicks, Phone: (205) 822-3727.
(71) *Laboratory: Schneider Services International, Inc. (NIST).*
- Address: Chem Lab MS-340, Arnold AFB, TN 37389, Contact: Jim Thomas, Phone: (615) 454-6573.
(72) *Laboratory: Schweiger and Associates (NIST).*
- Address: 2022 Powers Ferry Rd., Suite 180, 4M, Marietta, GA 30339, Contact: Patrick J. Schweiger, Phone: (404) 938-9250.
(73) *Laboratory: South Carolina Dept. of Health & Environmental Control (NIST), Bureau of Labs.*
- Address: 8231 Parklane Rd., P.O. Box 2202, Columbia, SC 29202, Contact: Edward Williams, Phone: (803) 737-7003.
(74) *Laboratory: Southeastern Marine Chemists, Inc. (NIST), Southeastern Chemists' Laboratories.*
- Address: P.O. Box 8917, Jacksonville, FL 32211, Contact: Joseph W. Newton, Phone: (904) 725-2040.
(75) *Laboratory: Specialized Assays (NIST).*
- Address: 210 12th Ave., S., P.O. Box 25110, Nashville, TN 37202, Contact: Kay Williams-Smith, Phone: (615) 255-5786.
(76) *Laboratory: TEI Environmental, Inc. (NIST).*
- Address: 308A Pomona Dr., Greensboro, NC 27407, Contact: James Buchanan, Phone: (919) 852-0318.
(77) *Laboratory: TTL, Inc. (NIST).*
- Address: 3516 Greensboro Ave., P.O. Box 1128, Tuscaloosa, AL 35403, Contact: Jack E. Davis, Phone: (205) 345-0816.
(78) *Laboratory: Testwell Craig Laboratories of Florida, Inc. (NIST).*
- Address: 7104 Northwest 51st St., Miami, FL 33166, Contact: Robert Schuler, Phone: (305) 593-0561.
(79) *Laboratory: Thornton Laboratories, Inc. (NIST).*
- Address: 1145 East Cass St., Tampa, FL 33602, Contact: Steve Fickett, Phone: (813) 223-9702.
(80) *Laboratory: Westinghouse Environmental & Geotechnical Svcs. Inc. (NIST).*
- Address: 3980 Dekalb Technology Pkwy., Suite 700, Atlanta, GA 30340, Contact: Clint Gilbert, Phone: (404) 452-1911.
(81) *Laboratory: Westinghouse Environmental & Geotechnical Svcs., Inc. (NIST).*
- Address: 5909 Breckenridge Pkwy., Suite B, Tampa, FL 33610, Contact: John J. Henderson, Phone: (813) 623-2438.
(82) *Laboratory: Westinghouse Environmental & Geotechnical Svcs., Inc. (NIST).*
- Address: 9800-D Southern Pines Blvd., P.O. Box 7668, Charlotte, NC 28217, Contact: Terry Liles, Phone: (704) 523-8910.
(83) *Laboratory: Westinghouse Environmental & Geotechnical Svcs., Inc. (NIST).*
- Address: 840 Low Country Blvd., Mt. Pleasant, SC 29464, Contact: Nina G. Marshtein, Phone: (803) 884-0005.
(84) *Laboratory: Weston-ATC Mobile Facility (NIST).*
- Address: 1635 Pumphrey Ave., Auburn, AL 36830, Contact: Keith Pass, Phone: (205) 826-6100.
(85) *Laboratory: Weston-ATC, Inc. (NIST).*
- Address: 1635 Pumphrey Ave., Auburn, AL 36830-4303, Contact: William Barker, Phone: (205) 826-6100.
EPA Accredited Commercial PLM Laboratories
REGION V—Chicago, IL
Regional Asbestos Coordinator:
Anthony Restaino, EPA, Region V, 230 S. Dearborn St., (5-SPT-7), Chicago, IL 60604. (312) 886-6003, (FTS) 886-6003.
(1) *Laboratory: ABS Environmental Labs, Inc. (NIST).*
- Address: 605 Brookside, Frankfurt, IL 60423, Contact: Arlene B. Smith, Phone: (815) 469-4464.
(2) *Laboratory: AIRResearch (NIST).*
- Address: 2969 N. 114th St., Wauwatosa, WI 53222, Contact: James Walsh, Phone: (414) 476-1030.
(3) *Laboratory: ALEX (NIST).*
- Address: 485 Frontage Rd., Burr Ridge, IL 60521, Contact: Linda Orr, Phone: (312) 789-6080.

- (4) *Laboratory*: ATEC Associates, Inc. (NIST).
Address: 1501 East Main St., Griffith, IN 46319, Contact: Roger S. Berkowitz, Phone: (219) 924-6690.
- (5) *Laboratory*: ATEC Associates, Inc. (NIST).
Address: 5150 East 65th St, Indianapolis, IN 46220-4871, Contact: Richard A. Gehlbach, Phone: (317) 849-4990.
- (6) *Laboratory*: Affiliated Environmental Services, Inc. (NIST).
Address: 3606 Venice Rd., Sandusky, OH 44870, Contact: Jack Dauch, Phone: (419) 627-1976.
- (7) *Laboratory*: Air Quality Testing (NIST).
Address: 236 South Washington St., Naperville, IL 60540, Contact: J.D. Stubblefield, Phone: (312) 983-4010.
- (8) *Laboratory*: Air Quality Testing, Inc. (NIST).
Address: 1630 Fifth Ave., Suite 541, Moline, IL 61265, Contact: Gerald Hofferth, Phone: (309) 762-1998.
- (9) *Laboratory*: AirTech Associates, Inc. (NIST).
Address: 4100 Madison, Lower Level, Suite 4, Hillside, IL 60162, Contact: Mark Watka or Anne Czechorski, Phone: (312) 547-8117.
- (10) *Laboratory*: Aires Environmental Services (NIST).
Address: 1550 Hubbard, Batavia, IL 60510, Contact: Cynthia Darling, Phone: (312) 879-3006.
- (11) *Laboratory*: Alderink & Associates, Inc. (NIST).
Address: 3221 3 Mile Rd., Grand Rapids, MI 49504, Contact: Carol J. Paxhia, Phone: (616) 791-0730.
- (12) *Laboratory*: Allied Enviro Engineering, Inc. (NIST).
Address: 18316 Middlebelt Rd., Livonia, MI 48152, Contact: William O'Brien, Phone: (313) 476-1068.
- (13) *Laboratory*: Alloway Testing (NIST).
Address: 1325 North Cole St., Lima, OH 45801-3415, Contact: John R. Hoffman, Phone: (419) 223-1362.
- (14) *Laboratory*: American Analytical Laboratories (NIST).
Address: 100 Lincoln St., Akron, OH 44308, Contact: Richard E. Moore, Phone: (216) 535-1300.
- (15) *Laboratory*: Amoco Oil Co.-Whiting Refinery (NIST), Lab. Services Division.
Address: 2831 Indianapolis Blvd., Whiting, IN 46394, Contact: James Miller, Phone: (219) 473-3075.
- (16) *Laboratory*: Anasbestosics Co. (NIST).
Address: 7206 West 90th Pl., Bridgeview, IL 60455, Contact: Gary Kentgen, Phone: (312) 598-2921.
- (17) *Laboratory*: Applied Environmental Sciences, Inc. (NIST).
Address: 511 11th Ave. S, Box 220, Minneapolis, MN 55415, Contact: Patrick DiBartolomeo, Phone: (612) 339-5559.
- (18) *Laboratory*: Asbestos Compliance Technology, Inc. (NIST).
Address: 4015 Cherry St., Cincinnati, OH 45223, Contact: Tina Schmalz, Phone: (513) 741-1331.
- (19) *Laboratory*: Asbestos Control Methods, Inc. (NIST).
Address: 2010 South Carboy Rd., Mount Prospect, IL 60056, Contact: Jeffrey Camplin, Phone: (312) 437-7999.
- (20) *Laboratory*: Asbestos Management, Inc. (NIST).
Address: 36700 South Huron St., Suite 104, New Boston, MI 48164, Contact: D. Rex Bleeker, Phone: (313) 961-6135.
- (21) *Laboratory*: Asbestos Technology, Inc. (NIST).
Address: 5353 Tacoma Ave., Indianapolis, IN 46220, Contact: Dawn Trigg, Phone: (317) 257-5096.
- (22) *Laboratory*: BCA Laboratory (NIST).
Address: 1102 South Main, Bloomington, IL 61701, Contact: Kurt Benckendorf, Phone: (309) 828-7772.
- (23) *Laboratory*: BDN Industrial Hygiene Consultants, Inc. (NIST).
Address: 8105 Valleywood Lane, Portage, MI 49002, Contact: Zigfrid Thomas, Phone: (616) 329-1237.
- (24) *Laboratory*: Badger Laboratories & Engineering Co., Inc. (NIST).
Address: 1110 South Oneida St., Appleton, WI 54915, Contact: Stephen Taylor, Phone: (414) 739-9313.
- (25) *Laboratory*: Beling Consultants, Inc. (NIST).
Address: 1001-16th St., Moline, IL 61265, Contact: Jeffrey A. Wasson, Phone: (309) 757-9800.
- (26) *Laboratory*: Braun Environmental Laboratories (NIST).
Address: 6800 South Country Rd. 18, P.O. Box 35108, Minneapolis, MN 55435-0108, Contact: Lisa A. Fournelle-Smestad, Phone: (612) 941-5600.
- (27) *Laboratory*: Bristol-Myers USPNG, Mail 45.
Address: 2404 W. Pennsylvania Ave., Evansville, IN 47721, Contact: John Tilley, Phone: (812) 429-7892.
- (28) *Laboratory*: Bruce Menkel & Associates, Inc. (NIST).
Address: 235 Industrial Dr., P.O. Box 159, Franklin, OH 45005, Contact: Bruce Menkel, Phone: (513) 746-9300.
- (29) *Laboratory*: C.G. Technologies, Inc. (NIST).
Address: 535 Science Dr., Suite B, Madison, WI 53711, Contact: Carol Gannon, Phone: (608) 238-7811.
- (30) *Laboratory*: CENCON (CNA Insurance) (NIST).
Address: 333 South Wabash-3W, Chicago, IL 60604, Contact: Ellen Janka, Phone: (312) 822-6093.
- (31) *Laboratory*: Carnow, Conibear and Associates, Ltd. (NIST).
Address: 333 West Wacker Dr., 14th Fl., Chicago, IL 60606, Contact: Steve Wolf, Phone: (312) 782-4486.
- (32) *Laboratory*: Chem-Bio Corporation (NIST).
Address: 140 East Ryan Rd., Oak Creek, WI 53154, Contact: Kaye Donlevy, Phone: (414) 764-7005.
- (33) *Laboratory*: Clayton Environmental Consultants, Inc. (NIST).
Address: 22345 Roethel Dr., Novi, MI 48050, Contact: Bob Lieckfield, Phone: (313) 344-1770.
- (34) *Laboratory*: Cole Associates, Inc. (NIST).
Address: 2211 East Jefferson Blvd., South Bend, IN 46615, Contact: Lawrence W. Grauvogel, Phone: (219) 236-4400.
- (35) *Laboratory*: Daily Analytical Laboratories (NIST).
Address: 1621 West Candletree Dr., Peoria, IL 61614, Contact: Susan J. Naschert, Phone: (309) 692-5252.
- (36) *Laboratory*: DataChem, Inc. (NIST).
Address: 4388 Glendale-Milford Rd., Cincinnati, OH 45242, Contact: Lance Eggenberger, Phone: (513) 733-5336.
- (37) *Laboratory*: DeLisle Consulting & Laboratories, Inc. (NIST).
Address: 6946 East North Ave., Kalamazoo, MI 49001, Contact: Brad Shook, Phone: (616) 343-9698.
- (38) *Laboratory*: DeYor Laboratories, Inc. (NIST).
Address: P.O. Box 3949, 7655 Market St., Suite 2500, Youngstown, OH 44512, Contact: Joseph K. Samuels, Phone: (216) 758-5788.
- (39) *Laboratory*: EIS Environmental Engineers, Inc. (NIST).
Address: 1701 North Ironwood Dr., South Bend, IN 46635, Contact: H. Stephen Nye, Phone: (219) 277-5715.
- (40) *Laboratory*: ENTELA Engineering Services, Inc. (NIST).

- Address: 4020 West River Dr., Comstock Park, MI 49321, Contact: Cal Van Ooyen, Phone: (616) 794-7774.
- (41) *Laboratory*: ERT Testing Services, Inc. (NIST).
- Address: D.O.H. Professional Bldg., 211 Glendale, Suite 425, Highland Park, MI 48203, Contact: Rose M. Grier, Phone: (313) 865-0600.
- (42) *Laboratory*: Electro Analytical, Inc. (NIST).
- Address: 7118 Industrial Park Blvd., Mentor, OH 44060-5377, Contact: Mitchell E. Fadem, Phone: (216) 951-3514.
- (43) *Laboratory*: Environmental Analytical Labs (NIST).
- Address: 314 South State Ave., Indianapolis, IN 46201, Contact: David W. Hogue, Phone: (317) 269-3618.
- (44) *Laboratory*: Environmental Consultants, Inc. (NIST).
- Address: 1916 North 12th St., P.O. Box 2104, Toledo, OH 43603, Contact: Donald Dick, Phone: (419) 241-7127.
- (45) *Laboratory*: Environmental Enterprises, Inc. (NIST).
- Address: 10147 Springfield Pike, Cincinnati, OH 45215, Contact: Wayne L. Collier, Phone: (513) 772-2818.
- (46) *Laboratory*: Environmental Evaluation & Laboratory Services, Inc. (NIST).
- Address: 225 Parsons St., P.O. Box 1665, Kalamazoo, MI 49005, Contact: A. Clark Kahn, III, Phone: (616) 388-8099.
- (47) *Laboratory*: Environmental Services, Inc. (NIST).
- Address: 1403 Sunset Ter., P.O. Box 385, Western Springs, IL 60558, Contact: Hugh Flack, Phone: (312) 246-2040.
- (48) *Laboratory*: Esstek, Inc. (NIST).
- Address: 17960 Englewood Dr., Middleburg Heights, OH 44130, Contact: Scott F. Linville, Phone: (216) 828-4220.
- (49) *Laboratory*: Fay Goldblatt Laboratories, Inc. (NIST).
- Address: 5225 Old Orchard Rd., Suite 2, Skokie, IL 60077, Contact: Fay Goldblatt, Phone: (708) 965-6333.
- (50) *Laboratory*: Gabriel Laboratories, Inc. (NIST).
- Address: 1421 North Elston Ave., Chicago, IL 60622, Contact: Chris Rollins, Phone: (312) 486-2123.
- (51) *Laboratory*: Gelles Laboratories (NIST).
- Address: 2836 Fisher Rd., Columbus, OH 43204, Contact: S.H. Gelles, Phone: (614) 276-2957.
- (52) *Laboratory*: General Motors Industrial Hygiene (NIST).
- Address: 3-229 RAB, GM Tech. Center, Warren, MI 48090, Contact: Marlaine Cermak, Phone: (313) 986-1051.
- (53) *Laboratory*: Hayden Environmental Group, Inc. (NIST).
- Address: 6015 Manning Rd., Miamisburg, OH 45342, Contact: David Robinson, Phone: (513) 866-5908.
- (54) *Laboratory*: Hazardous Materials Management, Inc. (NIST).
- Address: 2517 Seiferth Rd, Madison, WI 53704, Contact: Jonathan Patlak, Phone: (608) 221-4027.
- (55) *Laboratory*: IHI Kemron Environmental Services (NIST).
- Address: 32740 North Western Hwy., Farmington Hills, MI 48018, Contact: Charles O'Bryan, Phone: (313) 626-2426.
- (56) *Laboratory*: ITI Research Institute (NIST).
- Address: 10 West 35th St., Chicago, IL 60616, Contact: Jean Graf-Teteryoz, Phone: (312) 567-4286.
- (57) *Laboratory*: ITL/Bascor (NIST).
- Address: 5960 North Milwaukee Ave., Chicago, IL 60648, Contact: Joby H. Burman, Phone: (312) 792-2454.
- (58) *Laboratory*: Industrial Environmental Consultants (NIST).
- Address: 1760 East Grand River, East Lansing, MI 48823, Contact: Teresa Kenyon, Phone: (517) 351-4002.
- (59) *Laboratory*: Institute for Environmental Assessment (NIST).
- Address: 2829 Verndale Ave., Anoka, MN 55303, Contact: Richard T. Cox, Phone: (612) 427-5310.
- (60) *Laboratory*: John Mathes & Assoc., Inc. (NIST).
- Address: 210 West Sand Bank Rd., P.O. Box 330, Columbia, IL 62236-0330, Contact: David H. Ward, Phone: (618) 281-7173.
- (61) *Laboratory*: Lyle Laboratories (NIST).
- Address: 41 South Grant Ave., Columbus, OH 43215, Contact: Tom Eggers, Phone: (614) 224-8822.
- (62) *Laboratory*: MacDonald Research Group, Inc. (NIST).
- Address: 1441 N. Mayfair Rd., Milwaukee, WI 53226, Contact: Hector MacDonald, Phone: (414) 771-7151.
- (63) *Laboratory*: Martin Marietta Energy Systems, Inc. (NIST).
- Address: Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661, Contact: David Boyd, Phone: (614) 289-2331.
- (64) *Laboratory*: Materials Testing Consultants, Inc. (NIST).
- Address: 693 Plymouth NE, Grand Rapids, MI 49505, Contact: Judson Sorenson, Phone: (616) 456-5469.
- (65) *Laboratory*: Micro Air, Inc. (NIST).
- Address: 7132 Lakeview Pkwy. West Dr., Indianapolis, IN 46268, Contact: Harold Eitzen, Phone: (317) 293-1533.
- (66) *Laboratory*: Micro Air, Inc. (NIST) (Mobile).
- Address: 7132 Lakeview Pkwy. West Dr., Indianapolis, IN 46268, Contact: Harold Eitzen, Phone: (317) 293-1533.
- (67) *Laboratory*: Micro-Fiber Laboratories, Inc. (NIST).
- Address: 605 Landwehr Rd., Northbrook, IL 60062, Contact: Phillip G. Pekron, Phone: (312) 498-4127.
- (68) *Laboratory*: MicroView Consulting (NIST).
- Address: 416 East Catawba Ave., Akron, OH 44301, Contact: Frank S. Karl, Phone: (216) 773-8330.
- (69) *Laboratory*: Monarch Analytical Laboratories, Inc. (NIST).
- Address: P.O. Box 2990, Toledo, OH 43606, Contact: Ronald J. Plenzler, Phone: (419) 535-1780.
- (70) *Laboratory*: NATLSCO (NIST).
- Address: Rte. 22 & Kemper Dr., K-2, Long Grove, IL 60049, Contact: Joan Wronski, Phone: (312) 540-2488.
- (71) *Laboratory*: Northland Environmental Services, Inc. (NIST).
- Address: P.O. Box 909, Stevens Point, WI 54481, Contact: Robert C. Voborsky, Phone: (715) 341-9699.
- (72) *Laboratory*: Nova Environmental Services, Inc. (NIST).
- Address: 1107 Hazeltine Blvd., Suite 420, Hazeltine Gates, Chaska, MN 55318, Contact: Elizabeth Gardner, Phone: (612) 448-8888.
- (73) *Laboratory*: Ohio Department of Health (NIST), Division of Laboratories.
- Address: 1571 Perry St., Box 2568, Columbus, OH 43266-0068, Contact: Gary Davidson, Phone: (614) 421-1078.
- (74) *Laboratory*: P.A.T. Services (NIST).
- Address: 133 Hollywood, Creve Coeur, IL 61611, Contact: Cheryl McGuinnis, Phone: (309) 698-0703.
- (75) *Laboratory*: PEI Associates, Inc. (NIST).
- Address: 11499 Chester Rd., Cincinnati, OH 45246, Contact: Craig Caldwell, Phone: (513) 782-4700.
- (76) *Laboratory*: Pace Laboratories, Inc. (NIST).
- Address: 1710 Douglas Dr., N., Minneapolis, MN 55422, Contact: Roger Splinter, Phone: (612) 544-5543.
- (77) *Laboratory*: Parkland Labs (NIST).

Address: 2935 ClearLake Ave.,
Springfield, IL 62702, Contact: Harry
Stowers, Phone: (217) 525-2935.

(78) *Laboratory:* Particle Data
Laboratories, Ltd. (NIST).

Address: 115 Hahn St., Elmhurst, IL
60126, Contact: Ron Sturm, Phone:
(312) 832-5658.

(79) *Laboratory:* Pro-Ac Asbestos
Services (NIST).

Address: 8711 Reading Rd., Cincinnati,
OH 45215, Contact: Fred Schmalz,
Phone: (513) 821-0505.

(80) *Laboratory:* RCM Laboratories
(NIST).

Address: 4137 Blanchan, Brookfield, IL
60513, Contact: Collen Rifke, Phone:
(312) 485-8600.

(81) *Laboratory:* Randolph &
Associates, Inc. (NIST).

Address: 5440 North Cumberland Ave.,
Suite 111, Chicago, IL 60656, Contact:
Bruce Stockmeier, Phone: (312) 693-
6030.

(82) *Laboratory:* Randolph &
Associates, Inc. (NIST).

Address: 8901 North Industrial Rd.,
Peoria, IL 61615, Contact: Ellen Zuck,
Phone: (309) 692-4160.

(83) *Laboratory:* Reed City Hospital
(NIST).

Address: 7665 Patterson Rd., P.O. Box
75, Reed City, MI 49677, Contact:
James T. Reardon, Phone: (616) 832-
3271.

(84) *Laboratory:* Ricerca, Inc. (NIST).
Address: 7528 Auburn Rd, P.O. Box 1000,
Painesville, OH 44077-1000, Contact:
William O. Butler, Phone: (216) 357-
3300.

(85) *Laboratory:* S.E.A., Inc. (NIST).

Address: 7349 Worthington-Galena Rd.,
Columbus, OH 43085, Contact: Jami J.
St. Clair, Phone: (614) 888-4160.

(86) *Laboratory:* SIECO Asbestos
Laboratory (NIST).

Address: 629 Washington St., Columbus,
IN 47201, Contact: James McNalty,
Phone: (812) 372-9911.

(87) *Laboratory:* Sea Earth & Air
Environmental Consultants, Inc. (NIST).

Address: 5787 North Lincoln Ave.,
Chicago, IL 60659, Contact: Barbera
Carr, Phone: (312) 878-8337.

(88) *Laboratory:* Seaway
Environmental Labs (NIST).

Address: 542 Conkey St., Hammond, IN
46324, Contact: Karen A. Erny, Phone:
(219) 932-1770.

(89) *Laboratory:* Sierra Analytical &
Consulting Services, Inc. (NIST).

Address: 307 N. 1st St., Ann Arbor, MI
48103, Contact: Dave Nelson, Phone:
(313) 662-1155.

(90) *Laboratory:* Stat Analysis
Corporation (NIST).

Address: 2201 West Campbell Park Dr.,
Chicago, IL 60612-3501, Contact:
David E. Schwartz, Phone: (312) 733-
0551.

(91) *Laboratory:* Stilson Laboratories,
Inc. (NIST).

Address: 170 North High St., Columbus,
OH 43215, Contact: W. Martin Bell,
Phone: (614) 228-4385.

(92) *Laboratory:* Suburban
Environmental Consultants, Ltd. (NIST).

Address: 18031 Dixie Hwy., Homewood,
IL 60430, Contact: Henry G. Gooday,
Jr., Phone: (312) 335-1808.

(93) *Laboratory:* TEM, Inc. (NIST).

Address: 443 Duane St., Glen Ellyn, IL
60137, Contact: James Tuinenga,
Phone: (312) 790-0880.

(94) *Laboratory:* Testing Engineers &
Consultants, Inc. (NIST).

Address: 933 West Jolly Rd., Lansing, MI
48909, Contact: James Hollenbeck,
Phone: (517) 887-0628.

(95) *Laboratory:* Testing Engineers &
Consultants, Inc. (NIST).

Address: 3816 Carpenter Rd., Pittsfield
Township, MI 48197, Contact: Dawn
Brennan, Phone: (313) 971-0030.

(96) *Laboratory:* Testing Engineers
and Consultants, Inc. (NIST).

Address: P.O. Box 249, 1333 Rochester
Rd., Troy, MI 48099, Contact: Matthew
Skeels, Phone: (313) 588-6200.

(97) *Laboratory:* Thermo Analytical,
Inc. (NIST).

Address: 7314 West 90th St., Bridgeview,
IL 60455, Contact: Frank P. DeFranza,
Phone: (312) 430-1112.

(98) *Laboratory:* Thermo Analytical,
Inc./ERG (NIST).

Address: 525 Avis Dr., Suite 7, Ann
Arbor, MI 48108, Contact: Fred
Fenner, Phone: (313) 662-3104.

(99) *Laboratory:* Toledo City.

Address: 28 Main St., Toledo, OH 43605,
Contact: Richard K. Uscilowski,
Phone: (419) 693-0350.

(100) *Laboratory:* Tremco (NIST).

Address: 10701 Shaker Blvd., Cleveland,
OH 44104, Contact: Charles J. Kalocz1,
Phone: (216) 292-5000.

(101) *Laboratory:* Tri-State
Laboratories, Dept. of Environmental
Services (NIST).

Address: 19 East Front St., Youngstown,
OH 44503, Contact: Bari Lateef, Phone:
(216) 746-8800.

(102) *Laboratory:* Twin City Testing
Corporation (NIST).

Address: 662 Cromwell Ave., St. Paul,
MN 55114, Contact: Rennie Smith,
Phone: (612) 649-5000.

(103) *Laboratory:* United Analytical
Services, Inc. (NIST).

Address: 4410 West Roosevelt Rd., Suite
101, Hillside, IL 60162, Contact:
Patrick Fosnacht, Phone: (312) 449-
0070.

(104) *Laboratory:* Wadsworth/Alert
Laboratories (NIST).

Address: P.O. Box 31454, Cleveland, OH
44131, Contact: Dale Mori, Phone:
(216) 642-9151.

(105) *Laboratory:* Walker & Ward
(NIST).

Address: 2803 B N. St. Joseph Ave.,
Evansville, IN 47712, Contact: Roger
Ward, Phone: (812) 421-1900.

(106) *Laboratory:* Wausau Insurance
Companies, Environmental Health
Laboratory (NIST).

Address: 2000 Westwood Dr., Wausau,
WI 54401, Contact: Thomas Stavros,
Phone: (715) 842-6810.

(107) *Laboratory:* Wisconsin
Occupational Health Labs (NIST).

Address: 979 Jonathon Dr., Madison, WI
53713, Contact: Richard Zimmerman,
Phone: (608) 263-8807.

(108) *Laboratory:* Zimmerlin
Consulting Group (NIST).

Address: 3420 East 96th St., Suite A,
Indianapolis, IN 46240, Contact:
Daniel J. Smith, Phone: (317) 574-0848.

(109) *Laboratory:* Zimmerlin
Consulting Group (NIST).

Address: 3082 Brown Park Dr., Suite D,
P.O. Box 357, Hilliard, OH 43026-0357,
Contact: William Zimmerlin, Phone:
(614) 876-1153.

EPA Accredited Commercial PLM
Laboratories

REGION VI—Dallas, TX

Regional Asbestos Coordinator: John
West, 6T-PT, EPA, Region VI, 1445 Ross
Avenue, Dallas, TX 75202-2733. (214)
655-7244; (FTS) 255-7244.

(1) *Laboratory:* A & B Environmental
Service, Inc.

Address: 15371 Woodfoust Blvd.,
Charnelview, TX 77530, Contact: Ram
Ramakrishnan, Phone: (713) 457-6608.

(2) *Laboratory:* ACI & Associates
(NIST).

Address: 2100 Road to Six Flags E.,
Arlington, TX 76011, Contact: Dan
Weeks, Phone: (817) 282-9929.

(3) *Laboratory:* ATEC Associates, Inc.
(NIST).

Address: 11356 Mathis Ave., Dallas, TX
75299-3157, Contact: Jim Hutchins,
Phone: (214) 243-8931.

(4) *Laboratory:* Accumin Analysis,
Inc. (NIST).

- Address: 323 Hollyvale Dr., Houston, TX 77060, Contact: William McHale, Phone: (713) 931-1131.
- (5) *Laboratory*: Aegis Associates—El Paso (NIST).
- Address: 1280 Hawkins, Suite 120, El Paso, TX 79925, Contact: Michael Fernandez, Phone: (915) 592-6556.
- (6) *Laboratory*: Aegis Associates, Inc. (NIST).
- Address: 12015 Park 35 Circle, Suite 125, Austin, TX 78753-1807, Contact: Jimmie Bolton, Phone: (512) 835-8052.
- (7) *Laboratory*: Aer-Aqua Lab, Inc./ Accredited Industrial Hygienists, Inc. (NIST).
- Address: 211 E. Shaw, Pasadena, TX 77506, Contact: Mary Heusel, Phone: (713) 477-8101.
- (8) *Laboratory*: Allied Enviro Engineering Inc. (NIST).
- Address: 1450 Empire Central, Suite 116, Dallas, TX 75247, Contact: Thomas Palet, Phone: (214) 631-0862.
- (9) *Laboratory*: Arkansas Department of Health (NIST).
- Address: 4815 West Markham St., Little Rock, AR 72205, Contact: Stan Faulk, Phone: (501) 661-2389.
- (10) *Laboratory*: Assaigai Analytical Laboratories (NIST).
- Address: 7300 Jefferson, NE, Albuquerque, NM 87109, Contact: Dean Dupree, Phone: (505) 345-8964.
- (11) *Laboratory*: Building Environmental Systems, Inc. (NIST).
- Address: 3501 North MacArthur, Suite 400B, Irving, TX 75062, Contact: Amy L. Smith, Phone: (214) 257-0787.
- (12) *Laboratory*: Cantech, Inc. (NIST).
- Address: 9001 Airport Boulevard, Suite 105, Houston, TX 77061, Contact: Brain Akins, Phone: (713) 486-5729.
- (13) *Laboratory*: Central Analytical Laboratories, Inc. (NIST).
- Address: 2600 Marietta Ave., Kenner, LA 70062, Contact: David R. Lasater, Phone: (504) 469-3511.
- (14) *Laboratory*: Chemtex Environmental Laboratory (NIST).
- Address: 3082 25th Street, Port Arthur, TX 77642, Contact: C.N. Reddy, Phone: (409) 983-4575.
- (15) *Laboratory*: Conoco Analytical Labs (NIST).
- Address: 1000 South Pine, Ponca City, OK 74803, Contact: Gary Keen, Phone: (405) 767-2488.
- (16) *Laboratory*: Core Labs (NIST).
- Address: 2417 West Pinhook Rd., Lafayette, LA 70508-3344, Contact: Richard Tietz, Phone: (318) 232-8042.
- (17) *Laboratory*: Diversified Environmental Technologies, Inc. (NIST).
- Address: 132 West Main, Norman, OK 73069, Contact: Dan Tutt, Phone: (405) 360-7929.
- (18) *Laboratory*: EEG, Inc. (NIST).
- Address: 1305 E. Main, Russellville, AR 72801, Contact: Anne Woker, Phone: (501) 968-6767.
- (19) *Laboratory*: ENSR Consulting & Engineering (NIST).
- Address: 2925 Richmond Ave., Houston, TX 77098, Contact: Sandy Bialas, Phone: (713) 520-1495.
- (20) *Laboratory*: East Texas Testing Laboratory, Inc. (NIST).
- Address: 1717 East Erwin, Tyler, TX 75702, Contact: Gary G. LaFrance, Phone: (214) 595-4421.
- (21) *Laboratory*: Environmental Analysis, Inc. (NIST).
- Address: 914 Barber Street, Little Rock, AR 72202, Contact: Phillip Young, Phone: (501) 374-7837.
- (22) *Laboratory*: Environmental Consultants, Inc. (NIST).
- Address: P.O. Box 17867, Shreveport, LA 71138-0867, Contact: ArkLa Tex, Phone: (318) 687-3771.
- (23) *Laboratory*: Environmental Monitoring Service, Inc. (NIST).
- Address: 12731 Research Blvd., Bldg. A, Austin, TX 78759, Contact: Rick Pruet, Phone: (512) 335-9116.
- (24) *Laboratory*: Environmental Monitoring Service, Inc. (NIST).
- Address: 342 Twin City Hgwy., Port Neches, TX 77651, Contact: Don Duplechian, Phone: (409) 727-7778.
- (25) *Laboratory*: Environmental Research Institute, Inc. (NIST).
- Address: P.O. Box 2024, Tyler, TX 75710, Contact: Thomas R. McKee, Phone: (214) 877-9314.
- (26) *Laboratory*: Environmental Services Co., Inc. (NIST).
- Address: 13715 West Markham, Little Rock, AR 72211, Contact: James Brown, Phone: (501) 221-2565.
- (27) *Laboratory*: Envirotest, Inc. (NIST).
- Address: P.O. Box 42812-414, Houston, TX 77042, Contact: Daniel J. Gerhardt, Phone: (713) 782-4101.
- (28) *Laboratory*: Geo-Environmental Services, Inc. (NIST), Austin Office.
- Address: 7801 North Lamar, Suite 185E, Austin, TX 78752, Contact: John Johnson, Phone: (512) 454-5222.
- (29) *Laboratory*: Hanby Analytical Laboratories, Inc. (NIST).
- Address: 4400 South Wayside 107, Houston, TX 77087, Contact: Duane Salinas, Phone: (713) 649-4500.
- (30) *Laboratory*: Hanby Analytical Laboratories, Inc./ Mobile Unit (NIST).
- Address: 4400 South Wayside St., Suite 107, Houston, TX 77087, Contact: John D. Hanby, Phone: (713) 649-4500.
- (31) *Laboratory*: Huey, Martin, & Associates (NIST).
- Address: 5613 Bruyninckx Rd., Alexandria, LA 71303, Contact: Ben F. Martin, Phone: (318) 473-6446.
- (32) *Laboratory*: IHST (NIST).
- Address: 17480 Dallas Pkwy., Suite 111, Dallas, TX 75287, Contact: Tracy Bramlett, Phone: (214) 248-9110.
- (33) *Laboratory*: Kemron Environmental Services (NIST).
- Address: 16550 Highland Rd., Baton Rouge, LA 70810, Contact: Thomas Bauckham, Phone: (504) 293-8650.
- (34) *Laboratory*: Kiser Engineering, Inc. (NIST).
- Address: 211 North River St., Seguin, TX 78155, Contact: Rick Kirkpatrick, Phone: (800) 426-2102.
- (35) *Laboratory*: Law Engineering Testing Co. (NIST).
- Address: 5500 Guhn Rd., Houston, TX 77040, Contact: C. H. Byrd, Phone: (713) 939-7161.
- (36) *Laboratory*: Marshall Environmental Management (NIST).
- Address: 3801 Northwest 63rd St., Suite 162, Oklahoma City, OK 73116, Contact: Charles L. Marshall, Phone: (405) 842-3415.
- (37) *Laboratory*: Maxim Engineers, Inc. (NIST).
- Address: 11601 North Lamar, Austin, TX 78753, Contact: Fernando Yopez, Phone: (512) 837-8851.
- (38) *Laboratory*: Maxim Engineers, Inc. (NIST).
- Address: 2342 Fabens, P.O. Box 59902, Dallas, TX 75229, Contact: Steve Moody, Phone: (214) 247-7575.
- (39) *Laboratory*: McClelland Management Services (NIST).
- Address: 6100 Hillcroft, Suite 220, Houston, TX 77081, Contact: Jaye R. Stanley, Phone: (713) 995-9000.
- (40) *Laboratory*: Microanalysis Laboratory, Inc. (NIST).
- Address: 8499 Greenville Ave., Suite 201, Dallas, TX 75231, Contact: Carolyn Jones, Phone: (214) 340-0890.
- (41) *Laboratory*: NUS Corporation (NIST).
- Address: 900 Gemini, Houston, TX 77058, Contact: John W. McCormick, Phone: (713) 488-1810.
- (42) *Laboratory*: National Asbestos Consultants Inc. (NIST).
- Address: 4619 North Santa Fe, Oklahoma City, OK 73118, Contact:

Jerry Bowerman, Phone: (405) 528-6224.

(43) *Laboratory*: New Mexico State University (NIST), Electron Microscope Laboratory.

Address: Box 3EML, Las Cruces, NM 88003, Contact: Joseph LaPointe, Phone: (505) 646-3734.

(44) *Laboratory*: North American Analytical Labs (NIST).

Address: 4405 Crawford St., P.O. Box 6865, Abilene, TX 79605, Contact: Gene Walker, Phone: (915) 691-0172.

(45) *Laboratory*: Occupational Hygiene, (NIST).

Address: P.O. Box 181769, Dallas, TX 75218, Contact: Virginia Wheeler, Phone: (214) 324-3813.

(46) *Laboratory*: Occupational Safety & Health Consultants, Inc. (NIST).

Address: 208 North Armstrong, Bixby, OK 74008, Contact: Jeffrey Jenkins, Phone: (918) 366-4834.

(47) *Laboratory*: Oklahoma State Department of Health, Special Hazard Division (NIST).

Address: P.O. Box 53551, Oklahoma City, OK 73152, Contact: John M. Feero, Phone: (405) 271-5221.

(48) *Laboratory*: P.E.I. Microanalysis Laboratory D/FW (NIST).

Address: P.O. Box 612383 (Trailer No. 12), D/FW Airport, TX 75261, Contact: Neal Sizemore, Phone: (214) 574-1700.

(49) *Laboratory*: Phillips 66 Company (NIST), Borger Refinery & NGL Process Center Lab.

Address: Box 271, Borger, TX 79008, Contact: D. Taylor, Phone: (806) 273-2831.

(50) *Laboratory*: Precision Testing Labs, Inc. (NIST).

Address: 624 Northwest 5th St., Suite 2, Moore, OK 73160, Contact: Jerry Doyle, Phone: (405) 793-1468.

(51) *Laboratory*: ProTechnics Environmental Services, Inc. (NIST).

Address: 14760 Memorial Dr., 105, Houston, TX 77079, Contact: Steve Barham, Phone: (713) 496-9914.

(52) *Laboratory*: Raba-Kistner Consultants, Inc. (NIST).

Address: P.O. Box 690287, San Antonio, TX 78269-0287, Contact: Frank B. Schweitzer, Phone: (512) 699-9090.

(53) *Laboratory*: Regional Testing Lab, Inc. (NIST).

Address: 318 West Chestnut, Suite 204, Denison, TX 75020, Contact: Cliff Wood, Phone: (214) 463-6666.

(54) *Laboratory*: Southwest Environmental Management (NIST).

Address: Oklahoma Division, 3035 NW 63rd St., Suite 150, Oklahoma City, OK

73116, Contact: Teresa Burrows, Phone: (602) 443-0070.

(55) *Laboratory*: Southwestern Laboratories, Inc. (NIST).

Address: 2575 Lone Star Dr., Dallas, TX 75212, Contact: Lawrence M. Thompson, Phone: (214) 631-2700.

(56) *Laboratory*: Southwestern Laboratories, Inc. (NIST).

Address: 222 Cavalcade, Houston, TX 77009, Contact: Russell DiRaino, Phone: (713) 692-9151.

(57) *Laboratory*: Southwestern Public Service Co. (NIST), Systems Laboratory.

Address: P.O. Box 1261, Amarillo, TX 79170, Contact: Dean Metcalf, Phone: (806) 381-6360.

(58) *Laboratory*: Standard Testing & Eng. Co. (NIST).

Address: 660 Distributors Row, Harahan, LA 70123, Contact: Robert E. Jones, Phone: (504) 734-8378.

(59) *Laboratory*: Standard Testing and Engineering Co. (NIST).

Address: 3400 North Lincoln Blvd., Oklahoma City, OK 73105, Contact: Cheri Marcham, Phone: (405) 528-0541.

(60) *Laboratory*: Stanley Engineering Inc. & Alpha Analytical Labs, Inc. (NIST).

Address: 2700 Northwest 39th St., Oklahoma City, OK 73112, Contact: Keith L. Stanley, Phone: (405) 948-6505.

(61) *Laboratory*: Stanley Engineering, Inc. (NIST).

Address: 4137 South Harvard, Suite E, Tulsa, OK 74135, Contact: Allison Myers, Phone: (918) 747-2929.

(62) *Laboratory*: Sun City Analytical (NIST).

Address: 6028 Surety Dr., Suite 204A, El Paso, TX 79905, Contact: David Felix, Phone: (915) 772-7850.

(63) *Laboratory*: Sunbelt Associates, Inc. (NIST).

Address: 6961 Mayo Rd., New Orleans, LA 70126, Contact: Gary C. Allen, Phone: (504) 286-6798.

(64) *Laboratory*: Technology Serving People, Inc. (NIST).

Address: 5373 West Alabama, Suite 450, Houston, TX 77056, Contact: Bill Hurt, Phone: (713) 621-9067.

(65) *Laboratory*: Terra Environmental Controls, Inc. (NIST).

Address: 2909 Division St., Suite C, Metairie, LA 70002, Contact: Jason Bourgeois, Phone: (504) 885-5711.

(66) *Laboratory*: Texas Department of Health (NIST), Asbestos Abatement Branch.

Address: 1100 West 49th St., Austin, TX 78756-3199, Contact: Don Brown, Phone: (512) 458-7318.

(67) *Laboratory*: Texas Research Institute (NIST) Environmental Division.

Address: 9068 Bee Cave Rd., Austin, TX 78733, Contact: Gary Rolls, Phone: (512) 263-2101.

(68) *Laboratory*: The Hartford Steam Boiler Laboratory (NIST), Inspection & Insurance Co.

Address: 1100 North Post Oak No. 30, Suite 300, Houston, TX 77055, Contact: Diana Spence, Phone: (713) 578-7300.

(69) *Laboratory*: University of New Orleans (NIST), Asbestos Analysis Lab. Dept of Geology & Geophysics Lakefront.

Address: New Orleans, LA 70148, Contact: Gary Allen, Phone: (504) 286-6798.

(70) *Laboratory*: University of Texas, Health Center (NIST), Dept. of Cell Biology & Environmental Sciences.

Address: P.O. Box 2003, Tyler, TX 75710, Contact: Ronald Dodson, Phone: (214) 877-7554.

(71) *Laboratory*: Waldemar S. Nelson & Co., Inc. (NIST).

Address: 1200 St. Charles Ave., New Orleans, LA 70130, Contact: Laura E. Yager, Phone: (504) 523-5281.

(72) *Laboratory*: West-Paine Laboratories, Inc. (NIST).

Address: 7979 G.S.R.I. Ave., Baton Rouge, LA 70820, Contact: Jonny H. Vickers, Phone: (504) 769-4900.

EPA Accredited Commercial PLM Laboratories

REGION VII—Kansas City, KS

Regional Asbestos Coordinator: Wolfgang Brandner, EPA, Region VII, 726 Minnesota Ave., Kansas City, KS 66101. (913) 236-2835, (FTS) 757-2835.

(1) *Laboratory*: ACM Labs, Inc. (NIST).

Address: 304 North Main, P.O. Box 2073, Fairfield, IA 52556, Contact: David Fleshman, Phone: (515) 472-7402.

(2) *Laboratory*: ALERT Analytical Laboratories (NIST).

Address: 1900 West 47th Pl., No. 101, Westwood, KS 66205, Contact: William Garies, Phone: (913) 831-4516.

(3) *Laboratory*: Ames Environmental (NIST).

Address: 3910 Lincoln Way, Ames, IA 50010, Contact: David Fairchild, Phone: (515) 292-3400.

(4) *Laboratory*: Asbestos Consulting & Testing (NIST).

Address: 14953 West 101st. Ter., Lenexa, KS 66215, Contact: Jim A. Pickel, Phone: (913) 492-1337.

(5) *Laboratory:* Baird Scientific (NIST).

Address: P.O. Box 842, Carthage, MO 64836, Contact: Gary Baird, Phone: (417) 358-5567.

(6) *Laboratory:* CHART Services, Ltd. (NIST).

Address: 4725 Merle Hay Rd., Suite 214, Des Moines, IA 50322, Contact: Mary A. Finn, Phone: (515) 276-3642.

(7) *Laboratory:* CHART Services, Ltd. (NIST).

Address: 12616 West 62nd Ter., Suite 118, P.O. Box 18, Shawnee, KS 66216, Contact: Bernie Hemlick, Phone: (913) 268-0715.

(8) *Laboratory:* CHART Services, Ltd. (NIST).

Address: 7912 Davenport St., Omaha, NE 68114, Contact: Carmen Riegel, Phone: (402) 393-0155.

(9) *Laboratory:* Certified Environmental Management, Inc. (NIST).

Address: P.O. Box 504, Salina, KS 67402-0504, Contact: Brenda A. Tolson, Phone: (913) 536-4226.

(10) *Laboratory:* Hall-Kimbrell Environmental Services, Inc. (NIST).

Address: 4840 West 15th St., Lawrence, KS 66046, Contact: Robert Kleopfer, Phone: (913) 865-9304.

(11) *Laboratory:* Industrial Testing Laboratories, Inc. (NIST).

Address: 2350 7th Blvd., St. Louis, MO 63104, Contact: William J. Lowry, Phone: (314) 771-7111.

(12) *Laboratory:* Kansas Dept. of Health & Environment (NIST), Toxicology Section, Div of Labs and Res.

Address: Bldg. 740, Forbes Field, Topeka, KS 66620, Contact: Roger Carlson, Phone: (913) 296-1620.

(13) *Laboratory:* Larron Laboratory (NIST).

Address: 529 Broadway, Cape Girardeau, MO 63701, Contact: David Roth, Phone: (314) 334-8910.

(14) *Laboratory:* Microscopic Analysis, Inc. (NIST).

Address: 989 Gardenview Office Pkwy., St. Louis, MO 63141, Contact: Douglas N. Nimmo, Phone: (314) 993-2212.

(15) *Laboratory:* Midwestern Testing Labs, Inc. (NIST).

Address: P.O. Box 1657, Fairfield, IA 52556, Contact: Dennis Greenley, Phone: (515) 472-1881.

(16) *Laboratory:* Net Midwest Inc (NIST), Cedar Falls Division.

Address: 704 Enterprise Dr., Cedar Falls, IA 50613, Contact: Michael McGee, Phone: (319) 277-2401.

(17) *Laboratory:* Pace Laboratories, Inc. (NIST).

Address: 2005 West 103rd Ter. (B), Leawood, KS 66206, Contact: Don Wright, Phone: (913) 341-7800.

(18) *Laboratory:* Rainbow Environmental, Inc. (NIST).

Address: 9903 Pflumm Rd, Lenexa, KS 66215, Contact: Vern Simmons, Phone: (913) 894-1616.

(19) *Laboratory:* Ramsey-Schilling Consulting Group, Inc. (NIST).

Address: 503 Main St., Belton, MO 64012, Contact: George S. McDowell, Phone: (816) 331-0002.

(20) *Laboratory:* St. Louis County Health Department (NIST).

Address: 111 South Meramac, Clayton, MO 63105, Contact: Jacqueline Dohn, Phone: (314) 854-6830.

(21) *Laboratory:* The University of Iowa (NIST), University Hygienic Laboratory.

Address: Iowa City, IA 52242, Contact: I. A. Schwabbauer, Phone: (319) 335-4500.

(22) *Laboratory:* University of Missouri—Kansas City (NIST).

Address: Chemistry Dept., Kansas City, MO 64110, Contact: Dr. Peter F. Lott, Phone: (816) 276-2289.

(23) *Laboratory:* Veterans Administration (NIST).

Address: 11124 South Towne Square, 10BA5, St Louis, MO 63123, Contact: Vince Hacer, Phone: (314) 892-7227.

EPA Accredited Commercial PLM Laboratories

REGION VIII—Denver, CO

Regional Asbestos Coordinator: David Combs, (8AT-TS), EPA, Region VIII, 1 Denver Place, 999-18th St., Suite 500, Denver, CO 80202-2413. (303) 293-1744, (FTS) 564-1744.

(1) *Laboratory:* ARC Labs (NIST).

Address: 216 Denver Ave., Suite G&I, Grand Forks, ND 58220, Contact: Joe Worman, Phone: (701) 772-6496.

(2) *Laboratory:* ATC Environmental, Inc. (NIST).

Address: 2600 W. 29th Ave., Denver, CO 80211, Contact: Dan Benecke, Phone: (303) 480-0209.

(3) *Laboratory:* ATC Environmental, Inc. (NIST).

Address: 1515 East Tenth St., Sioux Falls, SD 57103, Contact: Donald Beck, Phone: (605) 338-0555.

(4) *Laboratory:* ATEC Associates, Inc. (NIST).

Address: 4960 Ironton, Inc. (NIST), Denver, CO 80239, Contact: Mark Komori, Phone: (303) 371-2640.

(5) *Laboratory:* Amoco Oil Company Mandan Refinery (NIST).

Address: Mandan Avenue & Old Red Trail, Mandan, ND 58554, Contact: Jennifer Romsaas, Phone: (701) 667-2463.

(6) *Laboratory:* Analytica, Inc. (NIST).

Address: 5930 McIntyre St., Golden, CO 80403, Contact: Steve Hyatt, Phone: (303) 279-2583.

(7) *Laboratory:* Bison Engineering/Research (NIST).

Address: P.O. Box 1703, Helena, MT 59624, Contact: Patricia E. Groll, Phone: (406) 442-5768.

(8) *Laboratory:* Colorado State University, Department of Environmental Health (NIST).

Address: B120 Microbiology Bldg., Fort Collins, CO 80523, Contact: Roy C. Warbington, Phone: (303) 491-6729.

(9) *Laboratory:* DCM Science Laboratory (NIST).

Address: 12975 West 24th Pl., Golden, CO 80401, Contact: Donna C. Mefford, Phone: (303) 237-0110.

(10) *Laboratory:* Datachem, Inc. (NIST).

Address: 960 West LeVoy Dr., Salt Lake City, UT 84123, Contact: Lance Eggenberger, Phone: (801) 266-7700.

(11) *Laboratory:* Dixon Information, Inc. (NIST).

Address: 78 West 2400 S., Salt Lake City, UT 84115, Contact: Willard C. Dixon, Phone: (801) 486-0800.

(12) *Laboratory:* Esstek, Inc. (NIST).

Address: 11435 West 48th Ave., Wheat Ridge, CO 80033-2101, Contact: Robert Cordova, Phone: (303) 425-7036.

(13) *Laboratory:* HTI Laboratories & Industrial Consultants (NIST) No. 1.

Address: 1806 Main Ave., Fargo, ND 58103, Contact: Constance S. Hodny, Phone: (701) 232-1399.

(14) *Laboratory:* HTI Laboratories & Industrial Consultants, Inc. (NIST).

Address: 6436 South Racine Cir., Engelwood, CO 80111, Contact: Constance S. Hodny, Phone: (303) 792-2125.

(15) *Laboratory:* HTI Laboratories & Industrial Consultants, Inc. (NIST) No. 2.

Address: 1806 Main Ave., Fargo, ND 58103, Contact: Constance Hodny, Phone: (701) 232-1399.

(16) *Laboratory:* Hager Laboratories, Inc. (NIST).

Address: 11234 East Caley Ave.,
Englewood, CO 80111, Contact: John
Molina, Phone: (303) 790-2727.

(17) *Laboratory*: Northern Engineering
& Testing, Inc. (NIST).

Address: 600 South 25th St., Billings, MT
59107, Contact: Kathleen Smit, Phone:
(406) 248-9161.

(18) *Laboratory*: Occupational Health
Technologies, Inc. (NIST).

Address: 171 University Cir., Pueblo, CO
81005, Contact: Thomas F. Antonson,
Phone: (719) 566-0422.

(19) *Laboratory*: Professional Service
Ind., Inc. (NIST), Pittsburgh Lab. Div.

Address: 2955 Southwest Temple St.,
Salt Lake City, UT 84115, Contact:
Herb Ritzman, Phone: (801) 484-8827.

(20) *Laboratory*: Survey, Management
& Design (NIST).

Address: P.O. Box 8021, Fargo, ND
58109, Contact: Miles Schacher,
Phone: (701) 234-9556.

EPA Accredited Commercial PLM
Laboratories

REGION IX—San Francisco, CA

Regional Asbestos Coordinator: Jo
Ann Semones, (A-4-2), EPA, Region IX,
215 Fremont St., San Francisco, CA
94105. (415) 974-7290, (FTS) 454-7290.

(1) *Laboratory*: ACCULAB
Environmental Services (NIST).

Address: 3700 Lakeville Hwy., Petaluma,
CA 94952, Contact: Olivia Alejandro,
Phone: (707) 778-4160.

(2) *Laboratory*: ASBESTECH (NIST).

Address: 6801 Fair Oaks Blvd., Suite H,
Carmichael, CA 95608, Contact:
Tommy G. Conlon, Phone: (916) 481-
8902.

(3) *Laboratory*: Analytical Research
Laboratories, Inc. (NIST).

Address: 160 Taylor St., P.O. Box 2360,
Monrovia, CA 91016, Contact:
Michelle Miller, Phone: (818) 357-3247.

(4) *Laboratory*: Applied Petrography,
Inc. (NIST).

Address: 8520 Sorenson Ave., Suite E,
Santa Fe Springs, CA 90670, Contact:
Joanna Deane, Phone: (213) 945-3468.

(5) *Laboratory*: Asbestos Detection
Co., Inc. (NIST).

Address: 12755 Brookhurst St., Suite 206,
Garden Grove, CA 92640, Contact:
Richard L. Frauenberger, Phone: (714)
530-1922.

(6) *Laboratory*: Asbestos Management
Services, Inc. (NIST).

Address: 14829 Proctor Ave., Industry,
CA 91748, Contact: Joseph Johnson,
Phone: (818) 961-4303.

(7) *Laboratory*: Associated Safety
Consultants (NIST).

Address: 13363 Saticoy St., No. 204,
North Hollywood, CA 91605, Contact:
Dan Flaherty, Phone: (818) 503-0471.

(8) *Laboratory*: BSE Labs, Inc. (NIST).

Address: 50 East Foothill Blvd., Arcadia,
CA 91006, Contact: Gustavo Delgado,
Phone: (818) 355-8911.

(9) *Laboratory*: California Water Labs
(NIST).

Address: 1430 Carpenter Ln., Modesto,
CA 95352, Contact: Gloria Poling,
Phone: (209) 527-4050.

(10) *Laboratory*: Cam Lab (NIST).

Address: 9525 Slauson Ave., Pico Rivera,
CA 90660, Contact: Michael R. Tiffany,
Phone: (213) 942-8668.

(11) *Laboratory*: Clark Geological
Services (NIST).

Address: 3479 Edison Way, Fremont, CA
94538, Contact: Joyce Lucas-Clark,
Phone: (415) 659-1784.

(12) *Laboratory*: Clayton
Environmental Consultants, Inc. (NIST).

Address: 1252 Quarry Ln., Pleasanton,
CA 94566, Contact: Ron Peters, Phone:
(415) 426-2600.

(13) *Laboratory*: Concord Analysis,
Inc. (NIST).

Address: 9960 Canoga Ave., Suite D-8,
Chatsworth, CA 91311, Contact:
Johanna Farr, Phone: (818) 407-0128.

(14) *Laboratory*: Control Labs, Inc./
Toxscan, Inc. (NIST).

Address: 42 Hangar Way, Watsonville,
CA 95076, Contact: Philip Carpenter,
Phone: (408) 724-4522.

(15) *Laboratory*: Design for Health,
Inc. (NIST).

Address: 1516 West Redwood, Suite 104,
San Diego, CA 92101, Contact: Steven
Heindl, Phone: (619) 291-1777.

(16) *Laboratory*: Dyer Laboratories,
Inc. (NIST).

Address: 2531 West 237th St., No. 121,
Torrance, CA 90505, Contact: D.L.
Dyer, Phone: (213) 530-3322.

(17) *Laboratory*: E & A Env'l Service,
Inc. (NIST).

Address: 15943 Clark Ave., Bellflower,
CA 90706, Contact: Ebbiteanga Abili,
Phone: (213) 925-5080.

(18) *Laboratory*: EMS Laboratories
(NIST).

Address: 507 Mission St., South
Pasadena, CA 91030, Contact:
Bernadine M. Kolk, Phone: (818) 441-
2393.

(19) *Laboratory*: EnvironMETeo
Services, Inc. (EMET) (NIST).

Address: 94-463 Ukee St., Suite A,
Waipahu, HI 96797, Contact: Clifford
How, Phone: (808) 671-8383.

(20) *Laboratory*: Environmental
Health Services (NIST).

Address: P.O. Box 85261, San Diego, CA
92138, Contact: Larry Marshall, Phone:
(619) 236-4717.

(21) *Laboratory*: Environmental
Innovations Corp. (NIST).

Address: 675 Hegenberger Rd., Suite 110,
Oakland, CA 94621, Contact: Kip Fout,
Phone: (415) 632-0104.

(22) *Laboratory*: Esstek (NIST).

Address: 3045 Teagarden St., San
Lenadro, CA 94577, Contact: Bob
Cordova, Phone: (303) 425-0013.

(23) *Laboratory*: Esstek, Inc. (NIST).

Address: 9041-17 Dice Rd., Santa Fe
Springs, CA 90670, Contact: Robert
Cordova, Phone: (303) 425-0013.

(24) *Laboratory*: Eureka Laboratories,
Inc. (NIST).

Address: 3401 La Grande Blvd.,
Sacramento, CA 95823, Contact:
Steven K. Leung, Phone: (916) 381-
7953.

(25) *Laboratory*: Fiberquant, Inc.
(NIST).

Address: 4824-B South 35th St., Phoenix,
AZ 85040, Contact: Larry Pierce,
Phone: (602) 276-6138.

(26) *Laboratory*: Forensic Analytical
Specialities, Inc. (NIST).

Address: 3777 Depot Rd., Suite 406,
Hayward, CA 94545, Contact: Stephen
A. Shaffer, Phone: (415) 887-8828.

(27) *Laboratory*: Gemeni Petrographic
Investigations (NIST).

Address: P.O. Box 2127, Novato, CA
94948, Contact: Peter A. Almendinger,
Phone: (415) 892-9016.

(28) *Laboratory*: HECO Safety
Division (NIST), Industrial Hygiene
Section.

Address: 820 Ward Ave., Honolulu, HI
96813, Contact: Joana Teba, Phone:
(808) 548-7386.

(29) *Laboratory*: Hall-Kimbrell
Environmental Services (NIST).

Address: 646 South Brea Canyon Rd.,
Walnut, CA 91789, Contact: David
Reusswig, Phone: (714) 594-3232.

(30) *Laboratory*: Hall-Kimbrell
Environmental Services (NIST).

Address: 2615 South King St., Suite 2A,
Honolulu, HI 96826, Contact: S. Gil
Cobb, Phone: (808) 943-0254.

(31) *Laboratory*: Hanlon Laboratories
(NIST).

Address: 8801 Folsom Blvd., Suite 145,
Sacramento, CA 95826, Contact:
Victoria Nabavi, Phone: (916) 386-
2153.

(32) *Laboratory*: Health Sciences
Associates (NIST).

- Address: 10771 Noel St., Los Alamitos, CA 90720, Contact: Kathy S. Jones, Phone: (714) 220-3922.
- (33) *Laboratory*: IT Corporation-Cerritos (NIST).
- Address: 17605 Fabrica Way, Cerritos, CA 90701, Contact: Mary Hammons, Phone: (213) 921-9831.
- (34) *Laboratory*: J.M. Cohen, Inc. (NIST).
- Address: 155 Bovet Rd., Suite 300, San Mateo, CA 94402, Contact: Joel Cohen, Phone: (415) 349-9737.
- (35) *Laboratory*: Kelco Asbestos Analytical Services (NIST).
- Address: 44814 Osgood Rd., Fremont, CA 94539, Contact: Patricia Brown, Phone: (415) 659-9751.
- (36) *Laboratory*: Kelco Services, Inc. (NIST).
- Address: 8421 Auburn Ave., Citrus Heights, CA 95610, Contact: Duane Graves, Phone: (916) 722-7997.
- (37) *Laboratory*: Kemron Environmental Services (NIST).
- Address: 14340 Bolsa Chica, Suite C, Westminster, CA 92683, Contact: Humphrey Laurent, Phone: (714) 373-1194.
- (38) *Laboratory*: Law Engineering, Inc. (NIST).
- Address: 5025 S. 36th St., Phoenix, AZ 85040, Contact: Peter Flening, Phone: (602) 437-0250.
- (39) *Laboratory*: McClara Laboratory (NIST).
- Address: 3560 Business Dr., Sacramento, CA 95820, Contact: Michael McClara, Phone: (916) 451-7244.
- (40) *Laboratory*: McCrone Environmental Services, Inc. (NIST).
- Address: 120 Newport Center Dr., Suite 240, Newport Beach, CA 92660, Contact: William Millar, Phone: (714) 759-6619.
- (41) *Laboratory*: Med-Tox Associates, Inc. (NIST).
- Address: 1229 Movera Boulevard, San Diego, CA 92110, Contact: Donald Lyons, Phone: (619) 276-8843.
- (42) *Laboratory*: Micro Analytical Laboratories, Inc. (NIST).
- Address: 5900 Hollis St., Suite M, Emeryville, CA 94608, Contact: Bradley Erskine, Phone: (415) 653-0824.
- (43) *Laboratory*: Microanalytical Services, Inc. (NIST).
- Address: 201 South Lake Ave., Suite 402, Pasadena, CA 91101, Contact: Lily Prigge, Phone: (818) 356-7400.
- (44) *Laboratory*: Microprobe (NIST).
- Address: 5104 East Burns, Tucson, AZ 85711, Contact: James R. Kessler, Phone: (602) 745-1189.
- (45) *Laboratory*: National Asbestos Labs, Inc. (NIST).
- Address: 2235 Polvorosa Ave., Suite 220, San Leandro, CA 94577, Contact: Kevin Smith, Phone: (415) 357-9555.
- (46) *Laboratory*: National Environmental Services, Inc. (NIST).
- Address: 5055 East Broadway, Suite D-208, Tucson, AZ 85711, Contact: Donna Katz, Phone: (602) 790-4491.
- (47) *Laboratory*: Orange County Health Care Agency (NIST).
- Address: 1729 W. 17th St., Santa Clara, CA 92706, Contact: Sol Klugman, Phone: (714) 834-8439.
- (48) *Laboratory*: PACE Laboratories (NIST).
- Address: 11 Digital Dr., Novato, CA 94949, Contact: Keith Hunter, Phone: (415) 883-6100.
- (49) *Laboratory*: Particle Diagnostics, Inc. (NIST).
- Address: 1274 Morena Blvd., San Diego, CA 92109, Contact: Dan Baxter, Phone: (619) 276-2200.
- (50) *Laboratory*: Precision Micro-Analysis (NIST).
- Address: 5685-A Power Inn Rd., Suite 102, Sacramento, CA 95824, Contact: J. Benjamin Smith, Phone: (916) 361-0694.
- (51) *Laboratory*: R.J. Lee Group, Inc. (NIST).
- Address: 2424 6th St., Berkeley, CA 94710, Contact: Jesse E. Fisher, Phone: (415) 486-8319.
- (52) *Laboratory*: Radiation Detection Co. (NIST).
- Address: 162 Wolfe Rd., P.O. Box 1414, Sunnyvale, CA 94088, Contact: Donald Shepley, Phone: (408) 735-8700.
- (53) *Laboratory*: Reynolds Electrical & Engineering Co. (NIST).
- Address: P.O. Box 98521, M/S 706, Las Vegas, NV 89193, Contact: Glen Clark, Phone: (702) 295-6379.
- (54) *Laboratory*: Salt River Project (NIST).
- Address: 600 East Curry Rd., Tempe, AZ 85281, Contact: William Powell, Phone: (602) 236-8024.
- (55) *Laboratory*: Schwein/Christensen Eng., Ltd. (NIST).
- Address: 3397 Mt. Diablo Blvd., Suite E, Lafayette, CA 94549, Contact: Conrad Christensen, Phone: (415) 284-3311.
- (56) *Laboratory*: Sonoran Desert Labs, Inc. (NIST).
- Address: 2425-A North Huachuaca Dr., Tucson, AZ 85745, Contact: Frank Mendoza, Phone: (602) 624-9366.
- (57) *Laboratory*: Sonoran Desert Labs, Inc. (NIST).
- Address: 2725 Congress St., Suite 2A, San Diego, CA 92110, Contact: Greg Behnfeldt, Phone: (619) 294-7200.
- (58) *Laboratory*: Southwest Environmental Management, Inc. (NIST).
- Address: 14255 N. 79th, Suite 10, Scottsdale, AZ 85260, Contact: Teresa Burrows, Phone: (602) 443-0070.
- (59) *Laboratory*: Southwest Hazard Control, Inc. (NIST).
- Address: 5400 West Massingale Rd., Tucson, AZ 85743, Contact: Gerald J. Karches, Phone: (602) 744-1060.
- (60) *Laboratory*: Stan Tech (NIST).
- Address: 4040 E. McDowell, Suite 412, Phoenix, AZ 85008, Contact: Tjuana White, Phone: (602) 273-6934.
- (61) *Laboratory*: TEM Analytics, Inc. (NIST).
- Address: 3443 East Fort Lowell, Suite 105, Tucson, AZ 85716, Contact: Sandra Bejarauno, Phone: (602) 795-7000.
- (62) *Laboratory*: TMA/NORCAL Corporation (NIST).
- Address: 2030 Wright Ave., Richmond, CA 94804, Contact: Rosemary Shiney, Phone: (415) 235-2633.
- (63) *Laboratory*: United States Testing Co., Inc. (NIST).
- Address: 3491 Kurtz St., San Diego, CA 92110, Contact: Larry Lindeen, Phone: (619) 222-0544.
- (64) *Laboratory*: Unitek Environmental Consultants, Inc. (NIST).
- Address: 2889 Mokumoa St., Honolulu, HI 96819, Contact: Irene Enoki, Phone: (808) 834-1444.
- (65) *Laboratory*: Van Houten Consultants, Inc. (NIST).
- Address: 422 Petaluma Blvd. North Suite B, Petaluma, CA 94952, Contact: Gregory P. Arnold, Phone: (707) 762-1132.
- (66) *Laboratory*: Western Technologies, Inc. (NIST), Chemistry Lab.
- Address: 3737 East Broadway Rd., Phoenix, AZ 85040, Contact: Steve Barnes, Phone: (602) 437-3737.
- EPA Accredited Commercial PLM Laboratories
- REGION X—Seattle, WA
- Regional Asbestos Coordinator*: Walter Jasper, EPA, Region X, 1200 Sixth Ave. (8T-063), Seattle, WA 98101. (206) 442-4762, (FTS) 399-2870.
- (1) *Laboratory*: Alaska Quality Control, Inc. (NIST).
- Address: 1205 East Int'l. Airport Rd., Suite 100, Anchorage, AK 99519.

Contact: Doug Jones, Phone: (907) 561-3055.

(2) *Laboratory:* Cascade Analytical Service (NIST).

Address: 3640 South Cedar St., Suite O, Tacoma, WA 98409, Contact: Juin B. J. TeVrucht, Phone: (206) 472-6909.

(3) *Laboratory:* Coffey Laboratories, Inc. (NIST).

Address: 4914 Northeast 122nd Ave., Portland, OR 97230, Contact: Fredrick C. Colley, Phone: (503) 254-1794.

(4) *Laboratory:* Environmental Consulting Services, Inc. (NIST).

Address: 1259 Willamette St., Eugene, OR 97401, Contact: Richard W. Carlin, Phone: (503) 345-6790.

(5) *Laboratory:* Environmental Consulting Services, Inc. (NIST).

Address: 3601 Northwest Yeon, Suite 134, Portland, OR 97210, Contact: Sheila Monroe, Phone: (503) 227-7210.

(6) *Laboratory:* Esstek, Inc. (NIST).

Address: 12822 Gateway Dr., Seattle, WA 98168, Contact: Richard C. Thompson, Phone: (303) 790-0529.

(7) *Laboratory:* Frandon Enterprises, Inc. (NIST).

Address: 511 North 48th, Seattle, WA 98103, Contact: Donald Wallace, Phone: (206) 633-2341.

(8) *Laboratory:* HAZCON, Inc. (NIST).

Address: 9500 Southwest Barbur Rd., Suite 100, Portland, OR 97219, Contact: Gerald Liddell, Phone: (503) 244-8045.

(9) *Laboratory:* HAZCON, Inc. (NIST).

Address: 5950 6th Ave. S, Suite 216, Seattle, WA 98108, Contact: Masood Hashmi, Phone: (206) 763-7364.

(10) *Laboratory:* HAZTOX, Inc. (NIST).

Address: 820 North Linder Rd., Meridian, ID 83642, Contact: Robert Woellner, Phone: (800) 548-8220.

(11) *Laboratory:* Hanford Environmental Health Foundation NHS, Inc. (NIST).

Address: 2950 C George Washington Way, Richland, WA 99352, Contact: Maureen Hamilton, Phone: (509) 376-6980.

(12) *Laboratory:* Hanford Environmental Health Foundation NHS, Inc. (NIST).

Address: 805 Goethals Dr., Richland, WA 99352, Contact: Maureen Hamilton, Phone: (509) 376-6980.

(13) *Laboratory:* M & M Environmental, Inc. (NIST).

Address: 3902 North 34th St., Tacoma, WA 98407, Contact: Mike Reid, Phone: (206) 572-2772.

(14) *Laboratory:* Marine & Environmental Testing, Inc. (NIST).

Address: P.O. Box 1142, Beaverton, OR 97075, Contact: Martin H. Finkel, Phone: (503) 286-2950.

(15) *Laboratory:* Med-Tox Associates, Inc. (NIST).

Address: 19730 64th Ave., Suite 205, Lynnwood, WA 98036, Contact: Lisa Burkard, Phone: (206) 672-2422.

(16) *Laboratory:* Microlab Northwest (NIST).

Address: 7609 140th Pl., NE, Redmond, WA 98052, Contact: Russel Crutcher, Phone: (206) 885-9419.

(17) *Laboratory:* Northwest Asbestos Consultants (NIST).

Address: 1005 Northwest Galveston, Suite E, Bend, OR 97701, Contact: Dale A. Schmidt, Phone: (503) 389-9727.

(18) *Laboratory:* Northwest Envirocon, Inc. (NIST).

Address: 3415 Truman St., Washougal, WA 98671, Contact: David Coward, Phone: (206) 835-9063.

(19) *Laboratory:* Oregon Analytical Laboratory (NIST).

Address: 14655 Southwest Old Schools Ferry Rd., Beaverton, OR 97007, Contact: Howard Boorse, Phone: (503) 644-5300.

(20) *Laboratory:* Professional Service Ind., Inc. (NIST).

Address: 700 West 58th St., Units A & B, Anchorage, AK 99518-1632, Contact: John Buzdor, Phone: (907) 561-2400.

(21) *Laboratory:* Professional Service Ind., Inc. (NIST).

Address: 611 Southeast Harrison St., Portland, OR 97214, Contact: Judy Grant, Phone: (503) 232-2183.

(22) *Laboratory:* Westinghouse Northwest Environmental Center (NIST).

Address: Kenai Peninsula Borough Maintenance, 47140 Poppy Ln., Soldotna, AK 99669, Contact: Larry Lockard, Phone: (907) 262-4011.

(23) *Laboratory:* Westinghouse Northwest Environmental Center (NIST).

Address: 1234 Columbia Dr., SE, Richland, WA 99352, Contact: Carlton Allen, Phone: (509) 735-3211.

(24) *Laboratory:* Weyerhaeuser Company (NIST), Safety & Health Service Laboratory.

Address: 32901 32nd Drive, South, Federal Way, WA 98003, Contact: Christopher Kirk, Phone: (206) 924-6639.

EPA Accredited Commercial PLM Laboratories

Non-Domestic PLM Laboratories

(1) *Laboratory:* Pinchin & Associates, Ltd. (NIST).

Address: Two Robert Speck Pkwy., Suite 290, Mississauga, Ontario, Contact: Suzanne Ruginis, Phone: (416) 279-1629.

(2) *Laboratory:* Pinchin Harris Holland Associates, Ltd. (NIST).

Address: No. 200-1285 West Pender St., Vancouver, BC, V6E 4B1, Canada, Contact: Geoffrey A. Clark, Phone: (604) 669-5979.

(3) *Laboratory:* Chatfield Technical Consulting, Ltd. (NIST).

Address: 2071 Dickson Rd., Mississauga, Ontario, Canada L5B 1YB, Contact: Eric Chatfield, Phone: (416) 896-7611.

(4) *Laboratory:* McMaster Laboratory (NIST), Occupational Health Laboratory.

Address: 1200 Main St., W., Hamilton, Ontario, Canada L8N 3Z5, Contact: Dave K. Verma, Phone: (416) 525-9140.

EPA Accredited Non-Commercial PLM Laboratories

REGION I—Boston, MA

Regional Asbestos Coordinator: Joe DeCola, EPA, Region I, Air and Management Division (APT-2311), JFK Federal Building, Boston, MA 02203. (617) 565-3835, (FTS) 835-3835.

(1) *Laboratory:* Olin Corp. (NIST), Environmental Hygiene Laboratory.

Address: 91 Shelton Ave., P.O. Box 30-9643, New Haven, CT 06511, Contact: James P. Dawson, Phone: (203) 781-5613.

(2) *Laboratory:* State of Maine, Department of Human Services (NIST), Public Health Laboratory.

Address: 221 State St., Augusta, ME 04333, Contact: John Krueger, Phone: (207) 289-2727.

EPA Accredited Non-Commercial PLM Laboratories

REGION II—Edison, NJ

Regional Asbestos Coordinator: Arnold Freiberg, EPA, Region II, Woodbridge Ave., Raritan Depot, Bldg. 5, (MS-500), Edison, NJ 08837. (201) 321-6671, (FTS) 340-6671.

(1) *Laboratory:* City of New York, Dept. of Gen. Svc. Lab, Division of Municipal Supplies (NIST).

Address: 480 Canal St., New York, NY 10013, Contact: A.D. Pacifico, Phone: (212) 925-5326.

(2) *Laboratory:* Hess Oil Virgin Islands Corp. (NIST).

Address: P.O. Box 127, Kingshill, St. Croix, VI 00850, Contact: John L. Edgley, Phone: (809) 778-4314.

(3) *Laboratory*: Nassau County Dept. of Health (NIST), Division of Laboratories & Research.

Address: 209 Main St., Hempstead, NY 11550, Contact: Robert Porter, Phone: (516) 483-9158.

EPA Accredited Non-Commercial PLM Laboratories

REGION III—Philadelphia, PA

Regional Asbestos Coordinator: Carole Dougherty, EPA, Region III (3HW-42), 841 Chestnut Bldg., Philadelphia, PA 19107. (215)597-3160, (FTS) 597-3160.

(1) *Laboratory*: Aluminum Company of America, Environmental Health Laboratory (NIST).

Address: ALCOA Technical Center, ALCOA Center, PA 15069, Contact: R. Danchik, Phone: (412) 337-2154.

(2) *Laboratory*: Maryland Dept. of Health Laboratories Adm.-AQL (NIST).

Address: 201 West Preston St., Room 6D1, Baltimore, MD 21203, Contact: Delores E. Willis, Phone: (301) 225-6212.

(3) *Laboratory*: National Institute of Health (NIST), Safety Support Section.

Address: Building 13, Room 3K04, Bethesda, MD 20892, Contact: Randolph K. Larsen, Phone: (301) 496-3457.

(4) *Laboratory*: Pennsylvania Department of Environmental Resources (NIST).

Address: Bureau of Laboratories, P.O. Box 1467, 3rd & Reily St., Harrisburg, PA 17120, Contact: Vincent White, Phone: (717) 787-4669.

EPA Accredited Non-Commercial PLM Laboratories

REGION IV—Atlanta, GA

Regional Asbestos Coordinator: Liz Wilde, EPA, Region IV, 345 Courtland St., NE, (4APT-PT), Atlanta, GA 30365. (404) 347-5014, (FTS) 257-5014.

(1) *Laboratory*: E.I. Dupont DeNemours & Co., Cape Fear Plant (NIST).

Address: P.O. Box 2042, Wilmington, NC 28402, Contact: W.M. Tedder, Phone: (919) 371-4257.

(2) *Laboratory*: EG&G Florida (NIST), Occupational Medicine & Environmental Health Services.

Address: P.O. Box 21296, BOC-022, Kennedy Space Center, FL 32815, Contact: Patricia L. Colomore, Phone: (407) 867-3829.

(3) *Laboratory*: GTRI Microscopy Research Lab (NIST).

Address: 151 Sixth St., O'Keefe Bldg., Atlanta, GA 30057, Contact: James Smith, Phone: (404) 894-3806.

(4) *Laboratory*: TN Dept. of Health & Environment (NIST).

Address: 1522 Cherokee Trail, P.O. Box 59019, Knoxville, TN 37950, Contact: Edward McCrary, Phone: (615) 546-9221.

(5) *Laboratory*: TN Dept. of Public Health (NIST), Jackson Branch Lab.

Address: 295 Summar Dr., Jackson, TN 38302-0849, Contact: John Hitz, Phone: (901) 424-9200.

EPA Accredited Non-Commercial PLM Laboratories

REGION V—Chicago, IL

Regional Asbestos Coordinator: Anthony Restaino, EPA, Region V, 230 S. Dearborn St., (5-SPT-7), Chicago, IL 60604. (312) 886-8003, (FTS) 886-8003.

(1) *Laboratory*: Commonwealth Edison/SMAD (NIST).

Address: 1319 South First Ave., Maywood, IL 60153, Contact: Bernard Piechalak, Phone: (312) 450-5435.

(2) *Laboratory*: NIOSH (NIST).

Address: 4676 Columbia Pkwy., MS R-2, Cincinnati, OH 45226, Contact: Phil Bierkaum, Phone: (513) 841-4321.

(3) *Laboratory*: State of Illinois Department of Public Health (NIST), Toxicology Laboratory.

Address: 2121 West Taylor St., Chicago, IL 60612-4285, Contact: Dietmar Grohlich, Phone: (312) 693-4766.

(4) *Laboratory*: West Allis Memorial Hospital (NIST), Industrial Toxicology Laboratory.

Address: 8901 West Lincoln Ave., West Allis, WI 53227, Contact: Leon A. Saryan, Phone: (414) 546-6313.

EPA Accredited Non-Commercial PLM Laboratories

REGION VI—Dallas, TX

Regional Asbestos Coordinator: John West, 6T-PT, EPA, Region VI, 1445 Ross Avenue, Dallas, TX 75202-2733. (214) 655-7244, (FTS) 255-7244.

(1) *Laboratory*: Duncan Public Schools (NIST).

Address: 1706 Spruce, P.O. Box 1548, Duncan, OK 73533, Contact: Ron Murray, Phone: (405) 255-4725.

(2) *Laboratory*: Jimmie Ann Bolton (NIST).

Address: P.O. Box 49079, Austin, TX 78765, Contact: Jimmie Ann Bolton, Phone: (512) 471-3511.

(3) *Laboratory*: Phillips Petroleum IH Lab (NIST).

Address: 267 Petroleum Lab, Bartlesville, OK 74004, Contact: Wanda Waugh, Phone: (918) 661-3648.

(4) *Laboratory*: Texaco Chemical Co. (NIST), Neches Plant.

Address: P.O. Box 847, Port Neches, TX 77651, Contact: Janet E. Wiiki, Phone: (409) 722-8381.

(5) *Laboratory*: U.S. Air Force (NIST). Address: OEHL/SA, Brooks AFB, TX 78235, Contact: Edward Brown, Phone: (512) 536-3626.

EPA Accredited Non-Commercial PLM Laboratories

REGION VIII—Denver, CO

Regional Asbestos Coordinator: David Combs, (8AT-TS), EPA, Region VIII, 1 Denver Place, 999-18th St., Suite 500, Denver, CO 80202-2413. (303) 293-1744, (FTS) 564-1744.

(1) *Laboratory*: Natl. Enforcement Investigation (NIST).

Address: Box 22527, Denver Federal Center, Denver, CO 80225, Contact: Douglas Kendall, Phone: (303) 236-9966.

(2) *Laboratory*: Public Service Co. of Colorado (NIST).

Address: Hampden Park West, Bldg. 5H, 1500 West Hampden, Englewood, CO 80110, Contact: Richard K. Price, Phone: (303) 797-4226.

EPA Accredited Non-Commercial PLM Laboratories

REGION IX—San Francisco, CA

Regional Asbestos Coordinator: Jo Ann Semones, (A-4-2), EPA, Region IX, 215 Fremont St., San Francisco, CA 94105. (415) 974-7290, (FTS) 454-7290.

(1) *Laboratory*: Aerojet Solid Propulsion Co., Water Quality Control Lab. (NIST).

Address: P.O. Box 15699C, Sacramento, CA 95813, Contact: Jimmy Suarr, Phone: (916) 355-4051.

(2) *Laboratory*: Aerojet Tech Systems Company (NIST), Non-Metallics Testing Laboratory.

Address: P.O. Box 13222, Dept. 9410, Bldg. 200, Sacramento, CA 95813, Contact: Jeanne Fischer, Phone: (916) 355-3496.

(3) *Laboratory*: LA Unified School District (NIST), Employee Safety Section.

Address: 1425 South San Pedro St., Room 215, Los Angeles, CA 90015, Contact: Jeffrey Franklin, Phone: (213) 742-7371.

(4) *Laboratory*: Riverside County Health Department Laboratory (NIST).

Address: 5888 Mission Blvd., Rubidoux, CA 92509, Contact: William Redden, Phone: (714) 784-1860.

(5) *Laboratory*: SCAQMD Laboratory (NIST).

Address: 9150 Flair Dr., El Monte, CA 91731, Contact: Joan Nieritit, Phone: (818) 572-6200.

(6) Laboratory: Timothy B. Hemming (NIST), City of LA, Dept. of Water & Power.

Address: 1630 North Main St., Bldg. 7, Box 111, Los Angeles, CA 90051-0100, Contact: Timothy B. Hemming, Phone: (213) 481-6691.

EPA Accredited Non-Commercial PLM Laboratories

REGION X—Seattle, WA

Regional Asbestos Coordinator: Walter Jasper, EPA, Region X, 1200 Sixth Ave. (8T-083), Seattle, WA 98101. (206) 442-4762, (FTS) 399-2870.

(1) Laboratory: Puget Sound Naval Shipyard (NIST).

Address: Code 1343, Bremerton, WA 98314, Contact: C. Laubach, Supervisor, Phone: (206) 476-8900.

Dated: February 21, 1990.

Charles L. Elkins,

Director, Office of Toxic Substances.

[FR Doc. 90-4445 Filed 2-27-90; 8:45 am]

BILLING CODE 5560-50-D

14 CFR Part 23

Wednesday
February 28, 1990

Part V

**Department of
Transportation**

Federal Aviation Administration

14 CFR Part 23

**Airworthiness Standards; Crash-Resistant
Fuel Systems; Proposed Rule**

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 23

[Docket No. 24494, Notice No. 85-7A]

RIN 2120-AA57

Airworthiness Standards; Crash-Resistant Fuel Systems

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of Proposed Rulemaking (NPRM).

SUMMARY: This notice proposes changes to the airworthiness standards to improve the crash resistance of fuel systems on normal, utility, acrobatic, and commuter category airplanes. The FAA has determined that improved crash resistance of these fuel systems is necessary to prevent deaths and injuries due to fire in survivable crashes. The proposed design changes limit fuel spillage near ignition sources and would provide additional time for the survivors to evacuate the airplane.

DATES: Comments must be received on or before June 28, 1990.

ADDRESSES: Military Specification, MIL-T-27422B, Tank, Fuel, Crash-resistant Aircraft, dated 24 February 1970, including amendment 1, dated 13 April 1971, applicable to this notice may be obtained from the Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120-5094, Attn: NPODS or may be examined at the Rules Docket at the address below.

Comments on this notice may be mailed in triplicate to: Federal Aviation Administration, Office of the Chief Counsel, Attn: Rules Docket (AGC-10), Docket No. 24494, 800 Independence Avenue, SW, Washington, DC 20591, or delivered to triplicate to: Room 915-G, 800 Independence Avenue, SW, Washington, DC 20591. Comments delivered must be marked Docket No. 24494. Comments may be inspected in Room 915-G between 8:30 a.m. and 5:00 p.m. on weekdays, except on Federal holidays.

In addition, the FAA is maintaining an information docket of comments in the office of Assistant Chief Counsel, ACE-7, Federal Aviation Administration, Central Region, 601 East 12th Street, Kansas City, Missouri 64106. Comments in the information docket may be inspected in the Office of Assistant Chief Counsel, Room 1558, weekdays between the hours of 7:30 a.m. and 4:00 p.m., except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Norman Vetter, Standards Office (ACE-

112), Small Airplane Directorate, Aircraft Certification Service, Federal Aviation Administration, 601 East 12th Street, Kansas City, Missouri 64106; telephone (816) 426-5688.

SUPPLEMENTARY INFORMATION:**Comments Invited**

Interested persons are invited to participate in the making of these proposed rules by submitting such written data, views, or arguments as they may desire. Comments relating to the environmental, energy, or economic impact that might result from adopting the proposal in this notice are invited. Communications should identify the regulatory docket or notice number and be submitted in triplicate to the address specified above. All communications received on or before the closing date for comments specified above will be considered by the Administrator before taking further rulemaking action. The proposal contained in this notice may be changed based on comments received. Commenters wishing the FAA to acknowledge receipt of comments submitted in response to this notice must include a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket No. 24494." The postcard will be date stamped and returned to the commenter. All comments received will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report summarizing each substantive public contact with FAA personnel concerned with this rulemaking will be filed in the docket.

Availability of NPRM

Any person may obtain a copy of this NPRM by submitting a request to the Federal Aviation Administration, Office of Public Affairs, Attn: Public Inquiry Center, APA-200, 800 Independence Avenue, SW., Washington, DC 20591, or by calling (202) 267-3484. Communications must identify the notice number of this NPRM. Persons interested in being placed on the mailing list for future NPRM's should also request a copy of Advisory Circular No. 11-2A, Notice of Proposed Rulemaking Distribution System, which describes the application procedure.

Background

On March 5, 1985, an Advance Notice of Proposed Rulemaking (ANPRM) was published in the *Federal Register* (50 FR 8948) as Notice 85-7. This advance notice announced the FAA's intent to incorporate airworthiness standards for crash-resistant fuel systems into part 23 of the Federal Aviation Regulations

(FAR), and invited interested persons to submit specific comments, suggestions, and recommendations to assist the FAA in determining the future course of action regarding the rulemaking activity.

The ANPRM presented the FAA's philosophy on possible rulemaking to require crash-resistant fuel systems. The ANPRM also quoted National Transportation Safety Board (NTSB) Recommendations A-80-90 through -95 verbatim and invite comments, information and views on some eight areas of consideration relative to the costs of possible rule changes. The comment period closed July 3, 1985.

The commenters, in general, support the concept of improved crash resistance for small airplane fuel systems. Some commenters emphasize that post-crash fires in survivable accidents occur only in a small percentage of accidents and that any required design changes must be cost effective. The FAA agrees with the comments received; however, the purpose of the ANPRM was to solicit the help of the public in establishing needed regulatory changes and their costs. The comments received did not provide this information. At the time the comments were received, there was an aviation panel known as the General Aviation Safety Panel (GASP), under the chairmanship of John W. Olcott, Editor and Associate Publisher of *Business and Commercial Aviation Magazine* which had just completed the development of recommendations for improved occupant seats for small airplanes. Because the comments to the ANPRM were not responsive, the GASP agreed to develop recommendations for proposed regulatory changes in response to the ANPRM. The FAA has received the GASP final recommendations. Since many of the ANPRM commenters participated in the GASP deliberations and agreed to the conclusions and recommendations, the GASP comment is presented verbatim below.

Recommendations of the General Aviation Safety Panel Relating to Fire-Resistant Fuel Systems for Small, General Aviation Airplanes With Less Than 10 Passenger Seats

The general aviation community is dedicated to safety. Unless aircraft are safe by design and are operated in a safe manner, the community will neither grow nor be allowed the relatively free access to the nation's airspace that it now enjoys.

For these reasons, knowledgeable members of the general aviation community, volunteering their services through an informal organization known as the General Aviation Safety Panel (GASP), met seven times for one or more days since July 1984 for

the purpose of developing meaningful recommendations in the areas of crashworthiness as it applies to post-crash fires in small, general aviation airplanes. The meetings were held at the request of the Federal Aviation Administration and were attended by representatives from that agency. Extensive research on the subject, including work sponsored by the FAA and conducted by B & M Technological Service, Inc., Cambridge, MA, was reviewed by the Panel in preparation for and during the seven meetings. In addition, members of the GASP conducted their own studies pertaining to recommendations on fire-resistant fuel systems.

The results of this GASP effort (hereafter referred to as GASP II Recommendations) to differentiate from the results of the General Aviation Safety Panel in the area of energy-absorbent seats and restraint systems for small, general aviation airplanes that were submitted to the FAA on May 2, 1984 as a Proposal on Enhanced Crash Tolerance and will be referred to as GASP I Recommendations) are summarized in this position paper.

Problem Definition and Magnitude—Several different approaches were taken to identify the nature of post-crash fires and the extent to which they were responsible for fatalities in survivable crashes of small, general aviation airplanes.

Preliminary studies by the National Transportation Safety Board emphasized that the multifaceted nature of post-crash fires makes identification of ignition-source location and fire propagation difficult and imprecise. Based upon (1) the crash leaving sufficient volume within the space occupied by pilot(s) and passenger(s) to sustain life and (2) the crash resulting in fatalities caused by fire (not blunt trauma), the Safety Board estimated that about four percent of the approximately 1,000 fatalities experienced annually in today's general aviation aircraft are likely to be influenced by elimination of post-crash fires.

B & M Technological Services, Inc., under contract to the FAA, examined 667 general aviation accidents with fatal or serious injuries from the year 1983 for the purpose of identifying the nature and impact of post-crash fires. Only 250 of those accidents had sufficient documentation available to yield data for B & M's analytical approach; of those with documentation suitable for analysis and also deemed survivable (a total of 150), information relating to fuel spillage was available for 121, and 96 accidents within that subject showed signs of fuel being spilled. Of the group of 96 documented, severe but survivable accidents with spilled fuel, 78 lost fuel from ruptured fuel tanks, 48 spilled fuel from one or more fuel lines and 22 spilled fuel from one or more fittings; only 27 experienced post-crash fires and five had fatalities as a result of those post-crash fires. A total of 10 lives were lost as a result of these five fire-fatality accidents.

The B & M data suggest that about four to five percent of the severe but survivable accidents involved fatalities due to thermal injuries (4.1 percent of the 121 severe but survivable accidents where fuel-spillage data were available, and 5.2 percent of the 96

severe but survivable accidents where fuel was spilled); about 10 percent of the overall fatalities were due to thermal injuries (10 thermal deaths out of 94 fatalities within the group examined).

Additional Data Related to Problem Definition—Further analysis of the 96 severe but survivable accidents where fuel was spilled and fatalities occurred from fire (a total of five accidents) indicated that fuel emanated from damaged fuel tanks in all five cases and that lines spilled fuel in two of the five cases as did fuel fittings. The nature of fire damage is such, however, that it is difficult if not impossible to determine where the fire started, how it progressed or whether the fatality could have been prevented solely by treating either the fuel tanks, fuel lines or fuel fittings. The data support only the findings that fuel was spilled and that a fatality resulted from thermal injuries.

Studies by S. Harry Robertson, president of Robertson Aviation, Tempe, AZ, indicate that the nature of fire propagation varies among aircraft designs, and that treatment of the problem must be addressed on a design-by-design basis.

Means to Address Problem—Although the nature of post-crash fires is difficult to define in terms of precisely where the fire starts and how it spreads, clearly a prerequisite is the spillage of fuel followed by a source of ignition. If subsequent designs prevent the spillage of fuel in survivable accidents, fire-related fatalities could be reduced.

The use of flexible fuel lines, frangible fittings, breakaway valves and crash-resistant fuel tanks by the U.S. Army has dramatically reduced the likelihood of fire-related fatalities in survivable accidents of rotorcraft. Similar technology has been demonstrated quite successfully in racing cars. The immediate and complete transference of fuel-system technology from rotorcraft or racing cars to small, general aviation airplanes is highly unlikely, however, for several reasons. Rotorcraft fuel tanks tend to be box-like since they need not be confined within thin wings; racing cars also have tankage requirements that differ in capacity and shape from those of small, general aviation airplanes. Furthermore, the arrangement of fuel tanks and lines for general aviation airplanes may differ from configurations used in rotorcraft and racing cars.

Since the current technology of fire-resistant fuel systems may not be applicable, it is unrealistically simplistic to expect that small, general aviation airplanes can be manufactured economically with no likelihood of spilling fuel in a survivable accident. Specifically, the GASP found the state of the art in fuel tank design to be inappropriate with respect to weight and capacity because of the surface/volume relationship of fuel tanks needed for typical general aviation airplanes.

A fuel tank system that would have the potential for no fuel spillage in a typical survivable accident would be too heavy and suffer too great a reduction in fuel volume to be practical. Analysis by the FAA indicates that for a full range of bladder material thicknesses from 0.030 to 0.108 inches, the weight penalty would be in the range of 0.26

to 0.62 pounds per gallon, and the reduction in fuel volume would be in the range of 8 to 14 percent, with many general aviation airplanes experiencing the higher losses in fuel volume. Members of the GASP have also conducted similar studies related to weight and volume, and they support the FAA's findings.

Furthermore, preliminary analysis indicates that equipping small, general aviation airplanes with fuel tanks that would be unlikely to spill fuel during a survivable accident would decrease their operational envelope, and that more frequent landings and takeoffs would be required for refueling in order to achieve the same operational capability as current airplanes without special crash-resistant fuel tanks. In fact, the effect of requiring special crash-resistant fuel tanks throughout the airplane, based on today's technology, could be to increase the potential for injury or death due to increased incidents of in-flight fuel exhaustion or to crashes in the more frequently necessary refueling steps.

Therefore, unless compromises related to weight and fuel volume are made and the potential for increased fatalities and serious injuries resulting from those compromises is accepted, the likelihood of fuel being spilled in a survivable accident exists for any small, general aviation airplane.

Preliminary studies concerning the weight of flexible fuel lines, frangible fittings and break-away valves suggest, however, that the weight penalty of these devices may not be significant or counterproductive.

While existing data fail to identify precisely what advantages would accrue from specific treatments of the fuel system in a small, general aviation airplane, the GASP assumes that benefits will result from reducing the likelihood of considerable fuel spillage in areas where there is an obvious and high probability of ignition (such as forward of the engine firewall) and in areas where the possibility of considerable fuel being spilled and ignited would be sufficiently high to reduce significantly the time available for extrication from the airplane (such as at the juncture of the wing and fuselage) in a survivable accident.

The purpose of treating a fuel system to prevent considerable spillage of fuel in a survivable accident is to delay the onset of rapid propagation of post-crash fire in order to increase the length of time available for the pilot(s) and passenger(s) to remove themselves from the crashed airplane. These treatments and design changes may not in all cases prevent a post-crash fire. The Panel believes that increasing the time available for extrication will be a contribution to safety, particularly if GASP I requirements for seats and restraint systems (which enhance the likelihood that an occupant in a survivable accident will be conscious and ambulatory) are applied.

Also, obvious sources of ignition, such as electrical lines that have sufficient voltage to create a spark if improperly grounded, should be separated from fuel lines in those areas where a fuel line rupture is likely in a survivable accident.

The means for increasing the time available for extrication in a survivable accident by preventing large quantities of fuel spillage near obvious ignition sources and near the pilot/passenger volume, needs to be considered for each design individually. It is not practical to develop a universal specification for the design of fire-resistant fuel systems that would be applicable to all aircraft.

GASP II Recommendations

I. The General Aviation Safety Panel recommends that the Federal Aviation Administration require all small, general aviation airplanes capable of carrying fewer than 10 passengers and having an application date for a new type certificate after December 31, 1988 (assuming that appropriate amendments to the Federal Aviation Regulations can be enacted by that date) be designed so that no more than 8.0 ounces of fuel spillage per fitting will occur in the junctures of lines and connections and in the area denoted in paragraphs I(a) through I(d).

- I(a). The wing/fuselage juncture
- I(b). The firewall/engine-mount juncture
- I(c). The juncture between tip tanks and wings
- I(d). The dry-bay area behind an engine if used to carry fuel

II. The GASP recommends that any fuel tank located in an engine nacelle or any fuselage tank located between the engine and an area occupied by either pilots of passengers, or any fuel tank external to the wing's contour (but not including tip tanks) should comply with the requirements of MIL-T-27422B, Type II, Class A with the following exceptions from MIL-T-27422B:

- II(a). Constant tear rate—the minimum energy for complete separation shall be 200 foot pounds.
- II(b). Impact penetration—drop height of a five-pound chisel shall be 8.0 feet.
- II(c). Impact tear—drop height of a five-pound chisel shall be 8.0 feet and the average tear shall not exceed 1.0 inches.
- II(d). Crash impact Phase I—delete.
- II(e). Crash impact test of full size production test cell—the cell shall be filled to 80 percent of normal capacity with water and the air removed. The cell shall be placed upon a platform and dropped from a height of 50 feet without leakage after impact.

III. The GASP recommends that the FAA investigate additional means to reduce fuel spillage from fuel tanks in general, provided such means do not detract from the overall performance and safety of aircraft because of factors such as increased weight, extensive tank maintenance or overall complexity of their design.

IV. The GASP recommends that the Federal Aviation Administration prepare an Advisory Circular that identifies acceptable means for compliance with regulations pertaining to fire-resistant fuel systems.

This document represents the concerted opinion of the General Aviation Safety Panel in response to the FAA's Advanced Notice of Proposed Rulemaking Docket No. 24494; Notice No. 85-7.

Respectfully submitted,
John W. Olcott,
Chairman, General Aviation Safety Panel

Discussion

The FAA has reviewed the GASP recommendations and proposes to incorporate into part 23 of the FAR certain recommended provisions for crash-resistant fuel systems. In consideration of recommendations I and II, the FAA proposes to add §§ 23.967(f) and 23.993(f) (1), (2), (3), and (4) to part 23. GASP recommendation II specifically excluded the incorporation of flexible liners in wing tip tanks. Subsequent to the receipt of the GASP recommendations, the FAA received additional data which shows that ruptured wing tip tanks have been the fuel source for post-crash fires in which there were fire related injuries. Therefore, proposed § 23.967(f) would also include a requirement for the incorporation of flexible liners in wing tip tank installations. GASP recommendation III will be addressed through FAA sponsored research development efforts through the FAA Technical Center.

In addition, several currently type certificated airplanes utilize bladder fuel tanks that are included in the type design at the option of the airplane manufacturer. For these optionally installed tanks, proposed § 23.967(g) would require that optionally installed bladder fuel tanks meet the crash-resistant requirements of § 23.993(f).

The FAA will request from the Director of the Federal Register approval for incorporation by reference of any military specifications that are included in any final rule based on these proposed standards.

In response to GASP recommendation IV, following promulgation and prior to the effectivity of any final rule resulting from this rulemaking, the FAA will formulate and make available for public comment, an advisory circular presenting acceptable means of compliance with the new regulations pertaining to fire-resistant fuel systems.

The GASP recommendations address only normal, utility, and acrobatic category airplanes having a passenger seating configuration of nine or less, excluding pilot seats. That was the size limit set for the GASP investigation at the time the panel was formed to investigate crash-resistant fuel systems; however, that limit was set before commuter category airplane type certification standards were added to part 23 (52 FR 1806; January 15, 1987). Therefore, for the purpose of this proposal, it is incumbent upon the FAA to extend the GASP recommendations to

all part 23 airplanes, including commuter category.

The FAA has determined that another area which was not included in the GASP recommendations and which should be considered for fuel spillage protection is the connection between adjacent fuel tanks, especially interconnected tanks functioning as a single tank. Displacement between such tanks during a survivable accident may spill hazardous quantities of fuel. Therefore, the FAA proposes to add § 23.993(f)(5) to address this concern.

Following its review of crashworthiness technology, the FAA concluded that the rules should address the separation of fuel spills from possible ignition sources. A new § 23.993(g) is proposed to incorporate such design requirements.

The GASP recommendations did not address the incorporation of crash-resistant fuel systems into current production (already certificated) airplanes. The FAA has determined that these systems are needed in all newly manufactured airplanes. However, the FAA also realizes that time must be allowed for the manufacturers to incorporate the needed type design changes. Accordingly, the FAA is proposing to amend § 23.2 to require that airplanes manufactured three years or more after the effective date of this final rulemaking action comply with these rules. In addition, the requirements of the current § 23.2 have also been revised for clarity.

Also, the GASP recommendations did not include a recommendation for the conditions under which ruptures of fuel lines and connections should not liberate more than 8 ounces of fuel. Because there are crashes where the occupants will not survive, such as those where the airplane flies into a solid object, the FAA has attempted to define the crash conditions using the term "a survivable accident" in proposed §§ 23.993 (f) and (g), and (g)(3). Although there is no established definition for "a survivable accident", the FAA believes that this term identifies crashes (accidents) in which the airplane occupants survived and needed to be protected from the occurrence of a post-crash fire while they were exiting the airplane or being rescued from it. Due to the lack of an accepted definition of this term, the FAA is interested in the public's position on its use and for recommendations for alternate wordage that might be used. Accordingly, comments on the use of this term are particularly solicited.

Regulatory and Economic Evaluations

This regulatory evaluation analyzes the benefits and costs of the proposal. A more detailed evaluation has been placed in the docket.

Benefits

The National Transportation Safety Board reviewed the Advanced Notice of Proposed Rulemaking (ANPRM) and made extensive comments relating to the potential benefits of crash-resistant fuel systems. One of their comments is as follows:

In summary, about 14 percent of the fatally injured occupants in fire accidents evaluated above could have survived had there been no fire. That translates to about a 4 percent yearly reduction in fatalities in all general aviation airplane crashes if post-crash fires were prevented in survivable crashes. Additionally, about 26 percent of the seriously injured occupants in accidents with fire could have been injured less severely had there been no fire which represents about a 6 percent yearly reduction in serious injuries.

The safety board believes that the predicted 4 percent reduction in fatalities by averting fires is an absolute minimum based on a conservative analysis of the accidents. The anticipated improvements through other crashworthiness rulemaking efforts, such as the addition of dynamically tested seat/shoulder harness systems and energy absorbing seats, may expand the survivable envelope of general aviation airplane accidents so that more occupants will survive the impact. These anticipated improvements will increase the number of occupants who will be exposed to post-crash fires which further warrants rulemaking in this area.

The safety board's conclusions were based on a study of 537 accidents that occurred in 1982. The survivability of the accidents was determined and an analysis made of the differences in fatality rates between accidents with and without fires. The FAA believes that methodology is sound and has used the NTSB's analysis in calculating prospective benefits.

B & M Technological Services, Inc. has conducted studies of casualty loss as a result of airplane crashes. Their analysis was based on a review of 151 accidents, which occurred in 1983 and resulted in 94 fatalities. Of these accidents, 19 percent involved post-crash fires and, of the 23 fatalities occurring in these accidents, 10 were caused by the fire, 8 were caused by trauma, and 5 resulted from unknown causes. Therefore, about 56 percent of the fatalities in accidents involving fire were the result of the fire. This is about four times the rate determined by the NTSB. The difference is a result of B & M's more restrictive criteria in selecting accidents. Only those that were survivable and had

sufficient data were used in their analysis. Since the NTSB data base was more extensive, its data will be used in this analysis.

During the years 1985, 1986, and 1987, there were 892, 901, and 778 fatalities, respectively, in fixed-wing aircraft, and there was an average of 200,000 fixed-wing aircraft in the general aviation fleet. Therefore, there was an average fatality rate of 4.3 fatalities per 1,000 airplanes. Since fire fatalities represent about 4 percent of total fatalities, there was an average fire fatality rate of 0.17 fatalities per 1,000 airplanes. Since the average life of an airplane is 20 years, the fire fatality rate per 1,000 airplanes over the life of the airplane is 3.4. The FAA, for analytical purposes, values a human life at \$1 million. This is generally the minimum statistical value used in government regulatory analysis. Therefore, the loss as a result of fire is an average of \$3,400 per airplane or \$1,450 in present value dollars (a 10 percent discount rate is used). Since the number of serious injuries caused by fire is about half the number of fatalities and the value of a serious injury is less than 10 percent the value of a life, potential reductions in the number of such injuries will not be used in the calculation of benefits.

If the proposals were 100 percent effective in preventing fires, the benefits would be \$1,450 per airplane. The benefits will be proportional to the effectiveness. For example, if the proposals were only 20 percent effective, the benefits would be \$290 per airplane.

The findings from a study of Army helicopter accidents showed that 9 percent of 895 helicopter accidents that occurred without crash-resistant fuel systems resulted in post-crash fires, and that of 702 accidents with the crash-resistant fuel systems, only 2 percent resulted in fire. Without the crash-resistant systems, post-crash fires occurred more than four times as often. According to the study, those fires that did occur in aircraft with the crash-resistant fuel systems were small and localized. Propagation was delayed significantly, allowing occupants to escape or to be rescued. The FAA believes that helicopter accidents, although different in some respects than fixed-wing airplane accidents, serve a useful proxy to measure effectiveness. In helicopters, the crash-resistant fuel system was about 80 percent effective; i.e., about 80 percent of the fires were eliminated as a result of implementing crash-resistant fuel systems. The proposals for this regulatory action are not as encompassing as those for military helicopters. In particular, wing

tanks do not need a bladder. Assuming that no fuel tanks are modified, the FAA believes the effectiveness for these proposals will range between 40 and 60 percent and, therefore, the benefits are estimated to be an average of \$580 to \$870 per airplane.

The accident rate differs for single-engine and multiengine airplanes. For example, in 1985, the fatality rate for single-engine airplanes was 3.9 fatalities per 1,000 airplanes, and for the multiengine airplanes the fatality rate was 5.2 fatalities per 1,000 airplanes. These figures compare to the average of 4.3 fatalities per 1,000 airplanes for an average fleet over 3 years as calculated above. Therefore, the benefits are estimated to be \$530 to \$790 for a single-engine airplane and \$700 to \$1,050 for a multiengine airplane.

Costs

The proposal is likely to cause change in the design of current fuel systems to make them more crashworthy. The cost of the new systems is dependent on the type of airplane. Generally, the costs will be higher for larger airplanes than for smaller ones. Even among airplanes of the same size, costs can vary. For example, some airplanes may have fuel tanks which will require bladders and others will not. The costs will be developed for two kinds of airplanes, a single-engine airplane and a multiengine airplane. Generally, manufacturers did not provide detailed data but preferred to respond to the NPRM. Therefore, the FAA provided the major input for the cost estimates.

There are two basic constituents in the cost of the fuel system: the fixed cost and variable cost. Fixed costs are composed of the following: engineering design and development, certification for newly designed aircraft and amending the certification for currently produced airplanes, and tooling and training.

Table 1 shows the development of the fixed costs for single-engine and multiengine airplanes, for both newly certificated and amended certificated models. The costs are incremental. For example, for a newly designed airplane, the costs are those in addition to those associated with the normal design process based on current regulations. The fuel systems are already a major component of airplanes and there are numerous current safety requirements in the FAR. Therefore, the fixed costs are not expected to be as high for newly certificated airplanes as for those that have to be redesigned. In addition, the proposed requirements for the fuel system can be integrated into the overall

certification program for a new aircraft, whereas, for a currently produced airplane, an amended certification would be an additional process.

The design hours and cost estimates were based on discussions with manufacturers and estimates made by the FAA. The cost per hour for design time includes overhead. Designers are well aware of the elements of crashworthy design and, therefore, for newly designed airplanes, the

incremental design cost should not be significant. For current designs, some problems may arise in changing to crashworthy systems and new drawings will be required. Testing costs cover actual testing and certification analysis required to satisfy FAA that the type design complies with applicable airworthiness standards. The major portion of this cost is expected to be for analysis and documentation rather than for actual testing. The only actual

testing required by the proposal is a test of each flexible fuel cell design to show no loss of a hazardous quantity of fuel under certain crash conditions. This test will be accomplished by a drop test of a fuel cell, which is not an expensive or complicated test. Tooling and training costs include expenses for fixtures, tools and testing devices to manufacture the fuel systems, and the cost of training workers.

Table 1.—FIXED COSTS

Task	Single-Engine		Multiengine	
	New Cert.	Amended	New Cert.	Amended
Design hours.....	100	400	200	600
Cost at \$60 per hour.....	\$6,000	\$24,000	\$12,000	\$36,000
Testing costs.....	\$20,000	\$40,000	\$30,000	\$60,000
Tooling and training.....	\$10,000	\$20,000	\$20,000	\$40,000
Total costs.....	\$36,000	\$84,000	\$62,000	\$136,000
Units amortized.....	1,000	1,000	1,000	1,000
Cost per unit.....	\$36	\$84	\$62	\$136

The variable costs consist of parts, labor, and overhead for producing an improved fuel system for each airplane. Special fuel line fittings will be required as will improved fuel lines in some places. In addition, a more crashworthy fuel cell will be required in some airplanes.

An important element in crash-resistant fuel systems is the installation of frangible, self-sealing fittings at key places in fuel lines. These fittings are designed to break away at designated points and at specific stresses, such as those occurring in a survivable crash. They would not activate in a hard landing or under stresses less severe than in a survivable crash. When the break occurs, a mechanism such as a ball or flapper valve closes off the fuel line so that fuel will not leak. There are many such fittings in use today in military helicopters. It is difficult to determine the cost of the fittings without knowing how many different kinds of fittings will be required and the production run of a particular airplane. The FAA estimates that the incremental cost of such a fitting will be about \$60. The number of such fittings will vary from one type of airplane to another. Single-engine airplanes have relatively simple fuel systems and multiengine airplanes have more complex systems. It is estimated that about 7 such fittings will be required for a single-engine airplane and about 11 fittings will be required for a multiengine airplane. Flexible sections of fuel line are expected to add about \$100 to the cost of a single-engine airplane and \$150 to

the cost of a multiengine airplane. The fittings are light in weight and will add only about 2 to 3 ounces per fitting. Therefore, their weight will not affect the cost estimates. The total estimated cost for these types of improvements will be \$520 and \$810 for a single and a multiengine airplane, respectively.

Fuel Tank Cost

The second major element in a crash-resistant fuel system is a strong flexible fuel tank. Typically, to provide this crash resistance, bladder cells are constructed of neoprene and nylon are installed. In addition, a fuel cavity lining is usually also installed to minimize chafing between the bladder cell and airframe structural elements. The cost can be affected in three ways: the first is the cost of the improved cell, the second is the increase in weight of the airplane, and the third is a possible reduction in fuel capacity.

The cost of the fuel tank is dependent on its design, size, and the number of airplanes produced. The average cost of a bladder cell meeting the requirements of this proposal, including installation, is estimated to be about \$10 per gallon of tank capacity.

For a newly certificated airplane, that would provide the same performance characteristics of payload, range, and speed as an unmodified airplane, the gross weight would have to increase about 2 percent, and there would be attendant operating cost increases. Existing designs would not incur a weight penalty since the weight of the bladder tank is less than the fuel it

displaces. However, the airplane would incur a range penalty as a result of not being able to carry as much fuel. The introduction of bladders to all fuel cells would result in a range reduction of 8 to 14 percent.

The above discussion addresses the imposition of crashworthy design for all fuel tanks in an airplane. The proposals are much more limited. Only fuel tanks located in an engine nacelle or located in the fuselage between the engine and an area occupied by the pilot or passengers, or any fuel tank external to the wing's contour, such as a tip tank, would be required to have an internal bladder. However, the use of tip tanks and tanks located in the fuselage is relatively rare. Further, fewer than 10 percent of part 23 aircraft are believed to use nacelle tanks. Therefore, the cost of implementing these proposals relating to bladders will be limited to less than 10 percent of all part 23 aircraft. An airplane that has only integral wing tanks would bear no cost increase as a result of the proposals relating to bladders.

Cost Summary

The total cost of all improvements in this proposal for a newly certificated airplane would be \$556 plus fuel bladder costs and \$872 plus fuel bladder costs for a single-engine and multiengine airplane, respectively. This is composed of \$36 in fixed costs and \$520 in the cost of fuel line fittings for the single-engine airplane and \$62 in fixed costs and \$810 for fuel line fittings for the multiengine airplane. The cost for reworking existing

designs would only be an additional \$48 and \$74 for a single- and a multiengine airplane, respectively

Comparison of Benefits and Costs

The estimated benefits of the proposal were calculated based on a determination that it would reduce fatalities due to post-crash fires by 40 to 60 percent. Further, higher benefits were calculated for multiengine airplanes than for single-engine airplanes because of differences in their current accident rates. Estimates of costs associated with this proposal vary according to whether the aircraft has one or more engines, whether it is a new production aircraft of existing design or a newly certificated model, and whether the aircraft is one of a very small group with a fuel tank that would require a bladder.

The benefits for a newly certificated single-engine airplane were estimated to range from \$530 to \$790, compared to a cost of \$556 (plus fuel bladder costs, if any). Fuel bladder costs can be minimized or completely eliminated in the design process through the use of integral wing tanks. The benefits for newly certificated multiengine airplanes are estimated to range from \$700 to \$1,050, compared to a cost of \$872 (plus fuel bladder costs, if any).

For new production airplanes of current design, the issue of fuel bladder cost is more important than with newly certificated airplanes, but would affect only about 10 percent of such aircraft. Benefits for an existing design single-engine airplane were estimated to range between \$530 to \$790, as compared to estimated costs of \$604 (plus fuel bladder costs, if any). Benefits for an existing design multiengine airplane were estimated to range from \$700 to \$1,050, compared to a cost of \$946 (plus any fuel bladder costs).

In this analysis, benefits exceed costs (excluding fuel bladder costs, if any) in all cases at the 60 percent effectiveness level, when employing the minimum statistical value of \$1 million to represent a human life. Even at the 40 percent effectiveness level, the cost per life saved is only \$1.35 million. The accident record clearly shows that this proposal will prevent several people from being fatally burned every year. On balance, the FAA believes this proposed regulation to be cost-beneficial.

Sensitivity Analysis

As indicated in the above analysis, there is a degree of uncertainty to the FAA estimates of benefits and costs. The critical elements are discussed below.

Casualty Loss

The prospective casualty loss was based on the historical record of accidents. The analysis of the historical record was of necessity based on accidents where information was available and extrapolations were made to the entire population. In addition, judgment had to be used in determining whether a fatality was a result of fire or trauma. In calculating the prospective casualty rate, it was assumed that the future fatality rate, without the benefit of these proposals, would remain the same as the historical rate of the last three years. The historical rate of fatalities per airplane has been decreasing at about a 2 to 3 percent rate per year. However, this is probably a result of flying hours being reduced by about 3 percent per airplane over the last several years, but this trend is not likely to continue. The FAA does believe that accident rates will probably decrease in the future as improvements are made in pilot training, in airplanes and in the air traffic control system. If the accident rate was decreased by 2 percent per year, the benefits could be decreased by 14 percent. However, the improvements through other crashworthiness rulemaking actions, such as the addition of dynamically tested and improved seat/shoulder harness systems and improved cabin safety, will tend to reduce fatalities as a result of trauma and subject these occupants to post-crash fire. Therefore, other improvements are not expected to significantly affect future fire casualty loss.

Value of Life

At present, there is a general consensus that, for analytical purposes, a reasonable statistical value of human life (or, stated another way, a reasonable cost to protect a human life) is a minimum of \$1 million. The benefits calculated in this study vary directly with the value used. For example, if a value of \$2 million were used instead of the \$1 million value that was actually used, the benefits would be twice as great.

Effectiveness of Crashworthy Fuel System

The effectiveness, that is, the percentage of prospective fatalities avoided by the proposals, was based on military experience with improved fuel systems, and evaluation by the FAA. If, for example, the effectiveness of the proposals were only half as much as the FAA believes, that is, 20 to 30 percent rather than 40 to 60 percent, the benefits would also be reduced by half.

Cost of Crashworthy Fuel System

There is uncertainty in the cost estimates as a result of the indefinite size of production runs, the absence of detailed analyses of component costs by the manufacturers, and the lack of reliable estimates of what the competitive market may be. Any change in costs will cause a proportional change in the costs per life saved.

Conclusion Relating to Benefits and Costs

On balance, the FAA believes this proposed regulation to be cost-beneficial. However, there is uncertainty in many of the elements composing the benefits and costs. It is expected that the comments to the NPRM relating to these economic factors will help to clarify the magnitude of the benefits and costs and, therefore, the FAA actively solicits comments relating to the economic analysis as well as to other sections of the NPRM.

Trade Impact Assessment

The proposal, if adopted, would have little or no impact on trade opportunities for both U.S. firms doing business overseas and foreign firms doing business in the United States. In the United States, newly manufactured airplanes whether of foreign or domestic origin, would have to meet the requirements of the proposal. U.S. manufacturers would not have to provide the crashworthy systems for the foreign market; therefore, their cost penalty would be minimal. If foreign nations adopt standards similar to those of the United States, there would be no competitive disadvantage at all.

Regulatory Flexibility Determination

The Regulatory Flexibility Act of 1980 (RFA) was enacted by Congress to ensure that small entities are not unnecessarily and disproportionately burdened by Government regulations. The RFA requires agencies to review rules which may have "a significant economic impact on a substantial number of small entities."

This rule amends part 23 of the FAR. Part 23 prescribes airworthiness standards for the issue of type certificates for airplanes in the normal, utility, acrobatic, and commuter categories. The FAA size threshold for a determination of a small entity for aircraft manufacturers is 75 employees; that is, an aircraft manufacturer with more than 75 employees is considered not to be a small entity. A substantial number of small entities, as defined by the FAA, means a number which is not less than 11 and which is more than one-

third of the small entities subject to the proposed rule. There are less than 11 small airplane manufacturers that will be subject to this proposal and, therefore, this proposed change does not have a significant economic impact on a substantial number of small entities.

Federalism Implications

The regulations proposed herein would not have substantial direct effects on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government. Therefore, in accordance with Executive Order 12612, it is determined that this proposal would not have sufficient federalism implications to warrant the preparation of a Federalism Assessment.

Conclusion

For reasons discussed earlier in the preamble of this notice, the FAA has determined that this document (1) involves a proposed regulation that is not major under the provisions of Executive Order 12291; and, (2) is not significant under DOT Regulatory Policies and Procedures (44 FR 11034; February 26, 1979). In addition, I certify that under the criteria of the Regulatory Flexibility Act, this proposed rule, if promulgated, will not have a significant economic impact, positive or negative, on a substantial number of small entities. In addition, this proposal, if adopted, would have little or no impact on trade opportunities for U.S. firms doing business overseas or for foreign firms doing business in the United States.

List of Subjects in 14 CFR Part 23

Aircraft, Air transportation, Aviation safety, Safety.

The Proposed Amendment

Accordingly, the Federal Aviation Administration proposes to amend part 23 of the Federal Aviation Regulations (14 CFR part 23), as follows:

PART 23—AIRWORTHINESS STANDARDS: NORMAL, UTILITY, ACROBATIC, AND COMMUTER CATEGORY AIRPLANES

1. The authority citation for part 23 continues to read as follows:

Authority: 49 U.S.C. 1344, 1354(a), 1355, 1421, 1423, 1425, 1428, 1429, 1430; 49 U.S.C. 106(g) (Revised Pub. L. 97-449; January 12, 1983).

2. Section 23.2 is revised to read as follows:

§ 23.2 Special retroactive requirements.

(a) Notwithstanding §§ 21.17 and 21.101 of this chapter and irrespective of the type certification basis, each normal, utility, and acrobatic category airplane having a passenger seating configuration of nine or less, excluding pilot seats, or any such foreign manufactured airplanes approved for entry into the United States, manufactured after December 12, 1986, must provide a safety belt and shoulder harness for each forward- or aft-facing seat which will protect the occupant from serious head injury when subjected to the inertia loads resulting from the ultimate static load factors prescribed in § 23.561(b)(2), or which will provide the occupant protection specified in § 23.562 when that section is applicable to the airplane. For other seat orientations, the seat/restraint system must be designed to provide a level of occupant protection equivalent to that provided for forward- or aft-facing seats with a safety belt and shoulder harness installed.

(b) Each shoulder harness installed at a flight crewmember station, as required by this section, must allow the crewmember, when seated with the safety belt and shoulder harness fastened, to perform all functions necessary for flight operations.

(c) Notwithstanding §§ 21.17 and 21.101 of this chapter and irrespective of the type certification basis, each normal, utility, acrobatic, or commuter category airplane, including any such foreign manufactured airplanes approved for entry into the United States, manufactured (insert date three years after the effective date of this amendment) must meet the requirements of §§ 23.967 (f) and (g) and 23.993 (f) and (g).

(d) For the purpose of this section, the date of manufacture is:

(1) The date the inspection acceptance records, or equivalent, reflect that the airplane is complete and meets the FAA Approved Type Design Data; or

(2) In the case of a foreign manufactured airplane, the date the Foreign Civil Airworthiness Authority certifies the airplane is complete and issues an original standard airworthiness certificate, or the equivalent in that country.

3. Section 23.967 is amended by adding new paragraphs (f) and (g) to read as follows:

§ 23.967 Fuel tank installation.

(f) Any fuel tank located in an engine nacelle, or any fuselage tank, or any other tank located between the engine(s) and an area occupied by either pilots or

passengers, or any fuel tank external to the wing's external contour, including tip tanks, must incorporate a flexible liner. The fuel tank liner material must meet the tear, impact, and crash resistance requirements of Military Specification (Mil. Spec.), MIL-T-27422B, Tank, Fuel, Crash-resistant Aircraft, dated 24 February 1970, including amendment 1, dated 13 April 1971, Type II, non-self-sealing, Class A, flexible cell construction, with the following modifications to those requirements:

(1) Constant rate tear—the minimum energy for complete separation shall be 200 foot pounds (ref. Mil. Spec. 4.6.5.1).

(2) Impact penetration—drop height of a five-pound chisel shall be 8.0 feet (ref. Mil. Spec. 4.6.5.2).

(3) Impact tear-drop height of a five-pound chisel shall be 8.0 feet and the average tear shall not exceed 1.0 inches (ref. Mil. Spec. 4.6.5.3).

(4) Crash impact phase I—delete (ref. Mil. Spec. 4.6.6.2).

(5) Crash impact test of a full size production test cell—the cell shall be filled to 80 percent of normal capacity with water and the air removed. The cell shall be placed upon a platform and dropped from a height of 50 feet without leakage after impact (ref. Mil. Spec. 4.6.7.9.2).

(g) For fuel tanks other than those specified in paragraph (f) of this section in which the airplane manufacturer elects to install a bladder tank, that bladder must meet the tear, impact, and crash-resistant requirements of this section.

4. Section 23.993 is amended by adding new paragraphs (f) and (g) to read as follows:

§ 23.993 Fuel systems lines and fittings.

(f) The fuel system must be designed so that no more than 8.0 ounces of fuel will be liberated by any rupture that will occur in the junctures of lines and connections, as a result of a survivable accident, in the following areas:

- (1) The wing/fuselage juncture;
- (2) The firewall/engine-mount juncture;
- (3) The juncture between the tip tanks and the wings;
- (4) Any dry-bay area adjacent to an engine if used to carry fuel; and
- (5) The juncture of fuel lines and tanks in any series of fuel tanks interconnected to function as a single fuel tank.

(g) The fuel system must be designed to avoid the contact of spilled fuel with any possible ignition source in a survivable accident. The design must:

(1) Avoid locating electrical systems, components, and wiring capable of producing ignition sparks, adjacent to fuel lines.

(2) Incorporate extendible lines in any portion of the fuel system other than those specified in paragraph (f) of this section, where structural deformation

could lead to release of fuel to an ignition source.

(3) Locate fuel lines, fittings, and tanks to avoid fuel or fuel vapor ignition from potential mechanical friction spark sources having a probability of being activated or created during a survivable accident.

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