

to intervene in accordance with the Commission's Rules.

Under the procedure herein provided for, unless otherwise advised, it will be unnecessary for Applicant to appear or be represented at the hearing.

Kenneth F. Plumb,

Secretary.

[FR Doc. 85-27567, Filed, 11-18-85; 8:45 am]

BILLING CODE 6717-01-M

[Docket No. ER86-105-000]

**Virginia Electric and Power Co.**

November 12, 1985

Take notice that Virginia Electric and Power Company (the Company), on October 31, 1985, tendered for filing a revised rate for transmission service contained in a contract between the Company and the Southeastern Power Administration (SEPA). The Company requests an effective date of December 31, 1985.

The company states that the increase in the transmission service charge is necessary to place the charge on a compensatory basis.

Copies of the revised rate were served upon SEPA and upon the Virginia State Corporation Commission and the North Carolina Utilities Commission.

Any person desiring to be heard or to protest said application should file a petition to intervene or protest with the Federal Energy Regulatory Commission, 825 North Capitol Street, NE., Washington, DC 20426, in accordance with § 385.211 and 385.214 of the Commission's Rules of Practice and Procedure (18 CFR 385.211, 385.214). All such petitions or protests should be filed on or before November 19, 1985. Protests will be considered by the commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a petition to intervene. Copies of this application are on file with the Commission and are available for public inspection.

Kenneth F. Plumb,

Secretary.

[FR Doc. 85-27582 Filed 11-18-85; 8:45 am]

BILLING CODE 6717-01-M

[Docket No. ER85-776-000]

**The Washington Water Power Co.; Amended Filing**

November 13, 1985.

Take notice that on November 1, 1985, The Washington Water Power Company filed an amendment of clarification of its original filing of an Agreement

applicable to what Washington refers to as a Short-Term Thermal Storage Agreement Between Washington and Bonneville Power Administration (BPA) for the period December 18, 1984 through June 30, 1985. In clarification, Washington states that during the term of the contract for storage and return of energy to BPA, all the energy was simultaneously purchased by WWP at a net of 7.0 mills/kwh.

Washington renews its request that the requirements of prior notice be waived, that the effective date be December 18, 1984, and that the Agreement be accepted and simultaneously cancelled because it has expired by its own terms, has not been renewed, and has all obligations satisfied.

Any person desiring to be heard or to protest said filing should file a motion to intervene or protest with the Federal Energy Regulatory Commission, 825 North Capitol Street, NE., Washington, DC 20426, in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure (18 CFR 385.211, 385.214). All such motions or protests should be filed on or before November 19, 1985. Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a motion to intervene. Copies of this filing and on file with the Commission are available for public inspection.

Kenneth F. Plumb,

Secretary.

[FR Doc. 85-27580 Filed 11-18-85; 8:45 am]

BILLING CODE 6717-01-M

[Docket No. ER86-122-000]

**West Texas Utilities Co.; Filing**

November 12, 1985.

Take notice that on November 1, 1985, West Texas Utilities Company ("WTU") submitted for filing twenty-three (23) executed Delivery Point and Service Specifications sheets providing for changes in conditions of service under Service Agreements between WTU and Brazos Electric Power Cooperative, Inc., Coleman County Electric Cooperative, Inc., Concho Valley Electric Cooperative Inc., Dickents Electric Cooperative, Inc., Lighthouse Electric Cooperative, Inc., Southwest Texas Electric Cooperative, Inc., and Stamford Electric Cooperative, Inc., executed under WTU's FERC Electric Tariff, Original Volume No. 1. The amendments are for the purpose of either providing for the establishment of a new delivery point, changing delivery

voltage, changing location, terminating a delivery point, or for increasing or decreasing the stated maximum contract demand at certain existing delivery points.

WRU states that copies of the filing have been sent to the Public Utility Commission of Texas and the affected full requirements wholesale customers.

Any person desiring to be heard or to protest said application should file a petition to intervene or protest with the Federal Energy Regulatory Commission, 825 North Capitol Street, NE., Washington, DC 20426, in accordance with Rules 214 and 211 of the Commission's revised Rules of Practice and Procedure (18 CFR 385.214, 385.211). All such petitions or protests should be filed on or before November 19, 1985. Protests will be considered by the Commission in determining the appropriate action to be taken but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a petition to intervene. Copies of this filing are on file with the Commission and are available for public inspection.

Kenneth F. Plumb,

Secretary.

[FR Doc. 85-27583 Filed 11-18-85; 8:45 am]

BILLING CODE 6717-01-M

[Project No. 8774-000 et al.]

**Hydroelectric Applications (Limestone Hydro Associates et al.); Applications Filed with the Commission**

Take notice that the following hydroelectric applications have been filed with the Federal Energy Regulatory Commission and are available for public inspection:

- 1a. Type of Application: Minor License.
- b. Project No.: P-8774-000.
- c. Date Filed: December 5, 1984.
- d. Applicant: Limestone Hydro Associates.
- e. Name of Project: Edwards Falls.
- f. Location: On the Limestone Creek in Onondaga County, New York.
- g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).
- h. Contact Person: Mr. David M. Coombe, Synergics, Inc. Suite 409, 410 Severn Avenue, Annapolis, MD 21403.
- i. Comment Date: December 16, 1985.
- j. Description of Project: The proposed project would utilize existing facilities consisting of: (1) A 350-foot-long and 24-foot-high masonry and earthen dam; and (2) a reservoir having a surface area of 3.5 acres and 20 acre-feet of storage capacity at the normal maximum surface elevation of 730 feet

msl. Applicant proposes to construct: (1) an intake structure; (2) a 4.5-foot-diameter and 730-foot-long penstock; (3) a powerhouse containing 2 generating units having a total rated capacity of 800-kW; (4) a tailrace; (5) a 330-foot-long 5-kV transmission line; and (6) appurtenant facilities. Applicant estimates that the average annual energy output would be 2.3 GWh. Project energy would be sold to the Niagara Mohawk Power Corporation. The owner of the dam is Willard Lipe, Manlius, New York.

k. This notice also consists of the following standard paragraphs: A3, A9, B, C, and D1.

2a. Type of Application: License.

b. Project No.: 8924-000.

c. Dated Filed: February 4, 1985.

d. Applicant: Northeast Hydrodevelopment Corporation.

e. Name of Project: McLane Dam.

f. Location: On the Souhegan River in Hillsboro County, New Hampshire.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Mr. Norman E. Hebert, Northeast Hydrodevelopment Corporation, 6 Able Street, Hudson, NH 03051.

i. Comment Date: December 13, 1985.

j. Description of Project: The proposed project would consist of: (1) An existing McLane Dam with a maximum height of 18 feet and an overall length of 328 feet; (2) the existing 6-acre reservoir which contains a gross storage capacity of 42 acre-feet at a normal pool elevation 230 feet msl; (3) the proposed installation of 3-foot-high flashboards which will raise the surface of the impoundment to 233 feet msl with a negligible increase in the reservoir surface area; (4) the proposed construction of approximately 60 feet of a water canal conduit; (5) a proposed 12-foot-wide by 20-foot-long powerhouse to contain 3 generating units with a total installed capacity of 265 kW; (6) a proposed 400-foot-long, 600-volt transmission line; (7) the proposed 0.6/7.8-kV transformers; (8) the existing 4,000-foot-long, 23-KV distribution line; (9) the proposed 2,600-foot-long access road; and (10) appurtenant facilities.

The Applicant estimates the average annual energy production to be 1.5 GWh. The power will be sold to and the dam is owned by the Public Service Company of New Hampshire.

k. This notice also consists of the following standard paragraphs: A3, A9, B, C and D1.

3a. Type of Application: License (5 MW or Less).

b. Project No.: 8955-000.

c. Date Filed: February 14, 1985 and supplemented July 22, 1985.

d. Applicant: D.J. Pitman International Corporation.

e. Name of Project: Oakland Mills Dam.

f. Location: On the Skunk River near Mount Pleasant, Henry County, Iowa.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Robert A. Olson, Esquire, Eli Corporation, 21 Green Street, Concord, NH 03301.

i. Comment Date: December 16, 1985.

j. Description of Project: The proposed project would consist of (1) An existing dam approximately 460 feet long and 25 feet high inclusive of 3-foot-high flashboards; (2) an existing 28-acre reservoir having a storage capacity of 62 acre-feet; (3) a new powerhouse containing two 440-kW generators and one 180-kW generator for a total capacity of 1,060 kW; (4) a new 12.47-kV transmission line approximately 50 feet long; and (5) appurtenant facilities. The applicant estimates that the average annual energy generation would be 4.813 MWh.

k. Purpose of Project: All project energy would be sold to a local utility.

l. This notice also consists of the following standard paragraphs: A3, A9, B, C, and D1.

4a. Type of Application: Preliminary Permit.

b. Project No.: 9329-000.

c. Date Filed: July 5, 1985.

d. Applicant: Burlington Energy Development Associates.

e. Name of Project: Leeds Dam.

f. Location: On the Mill River, in the Town of North Hampton, Hampshire County, Massachusetts.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Mr. John R. Anderson, Burlington Energy Development Associates, 64 Blanchard Road, Burlington, MA 01803.

i. Comment Date: December 16, 1985.

j. Description of Project: The proposed project would consist of: (1) An existing, 22-foot-high, 235-foot-long Leeds Dam; (2) an existing 6-acre reservoir with a normal maximum surface elevation of 358 feet USGS; (3) a proposed powerhouse which will contain an installed generating capacity of 75 kW; (4) an existing 10-foot-wide, 300-foot-long, dirt access road; (5) a proposed 400-foot-long, 35.4-kV transmission line; and (6) appurtenant facilities. The Applicant estimates that the average annual energy generation would be 325 MWh. The Leeds Dam and appurtenant facilities are owned by P.H. Corp.

k. Purpose of Project: All project power generated would be sold to the Massachusetts Electric Company.

l. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C & D2.

m. Proposed Scope and Cost of Studies under Permit: A preliminary permit, if issued, does not authorize construction. The Applicant seeks issuance of a preliminary permit for a period of 18 months, during which time the Applicant would perform studies to determine the feasibility of the project. Depending upon the outcome of the studies, the Applicant would decide whether to proceed with an application for FERC license. Applicant estimates the cost of the studies under permit would be \$5,500.

5a. Type of Application: Preliminary Permit.

b. Project No.: 9331-000.

c. Date Filed: July 5, 1985.

d. Applicant: Burlington Energy Development Associates.

e. Name of Project: Spring Street Dam.

f. Location: On the Mill River, in the Town of North Hampton, Hampshire County, Massachusetts.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Mr. John R. Anderson, Burlington Energy Development Associates, 64 Blanchard Road, Burlington, MA 01803.

i. Comment Date: December 16, 1985.

j. Description of Project: The proposed project would consist of: (1) An existing, 24-foot-high, 180-foot-long Spring Street Dam; (2) an existing 2-acre reservoir with a normal maximum surface elevation of 310 feet USGS; (3) a proposed powerhouse which will contain an installed generating capacity of 100 kW; (4) an existing 10-foot-wide, 20-foot-long, dirt access road; (5) a proposed 100-foot-long, 35.4-kV transmission line; and (6) appurtenant facilities. The Applicant estimates that the average annual energy generation would be 440 MWh. The Spring Street Dam and appurtenant facilities are owned by the Meadow Trust Company, Massachusetts Electric, and Fairway Village, Inc.

k. Purpose of Project: All project power generated would be sold to the Massachusetts Electric Company.

l. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C, & D2.

m. Proposed Scope and Cost of Studies under Permit: A preliminary permit, if issued, does not authorize construction. The Applicant seeks issuance of a preliminary permit for a period of 18 months, during which time the Applicant would perform studies to determine the feasibility of the project. Depending upon the outcome of the

studies, the Applicant would decide whether to proceed with an application for FERC license. Applicant estimates the cost of the studies under permit would be \$5,500.

6a. Type of Application: Preliminary Permit.

b. Project No.: 9332-000.

c. Date Filed: July 5, 1985.

d. Applicant: Burlington Energy Development Associates.

e. Name of Project: Paradise Pond.

f. Location: On the Mill River, in the Town of North Hampton, Hampshire County, Massachusetts.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)—825(r).

h. Contact Person: Mr. John R. Anderson, Burlington Energy Development Associates 64 Blanchard Road, Burlington, MA 01803.

i. Comment Date: December 16, 1985.

j. Description of Project: The proposed project would consist of: (1) The existing, 20-foot-high, 230-foot-long Paradise Pond Dam; (2) an existing 9-acre reservoir with a normal maximum surface elevation of 135 feet USGS; (3) a proposed powerhouse which will contain an installed generating capacity of 75 kW; (4) an existing 20-foot-wide, 500-foot-long, dirt access road; (5) a proposed 500-foot-long, 35.4-kV transmission line; and (6) appurtenant facilities. The Applicant estimates that the average annual energy generation would be 325 MWh. The Paradise Pond and appurtenant facilities are owned by Smith College.

k. Purpose of Project: All project power generated would be sold to the Massachusetts Electric Company.

l. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C & D2.

m. Proposed Scope and Cost of Studies under Permit: A preliminary permit, if issued, does not authorize construction. The Applicant seeks issuance of a preliminary permit for a period of 18 months, during which time the Applicant would perform studies to determine the feasibility of the project. Depending upon the outcome of the studies, the Applicant would decide whether to proceed with an application for FERC license. Applicant estimates the cost of the studies under permit would be \$5,500.

7a. Type of Application: Preliminary Permit.

b. Project No.: 9351-000.

c. Date Filed: July 19, 1985.

d. Applicant: McCallum Hydro Enterprises.

e. Name of Project: Sandy Hook Dam.

f. Location: On the Pootatuck River in Fairfield County, Connecticut.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)—825(r).

h. Contact Person: Mr. Donald Szarmach, 805 Housatonic Avenue, Bridgeport, CT 06604.

i. Comment Date: December 16, 1985.

j. Description of Project: The proposed project would consist of: (1) An existing 31-foot-high and 185-foot-long stone masonry dam with a proposed spillway crest elevation of 211.6 feet msl; (2) a proposed 2.8-acre surface reservoir with a storage capacity of 28.3 acre-feet with a maximum surface elevation of 211 feet msl; (3) two existing sluice gates which control the intake to a 72-inch diameter riveted steel conduit which transports water to; (4) a proposed powerhouse to contain one turbine/generator unit with an installed capacity of 100 kW with flows discharging back into the river; (5) a new 13-kV transmission line 125 feet long; and (6) appurtenant facilities. The estimated average annual energy produced by the project would be 275,000 kWh operating under a net hydraulic head of 22 feet. The owner of the dam is Shorewood Realty, LTD.

k. Purpose of Project: Project energy will be used by the tenants at the factory and surplus power will be sold to the Connecticut Light and Power Company.

l. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C, and D2.

m. Proposed Scope and Cost of Studies under Permit: A preliminary permit, if issued, does not authorize construction. The term of the proposed preliminary permit is 36 months. The work proposed under the preliminary permit would include economic analysis, preparation of preliminary engineering plans, and a study of environmental impacts. Based on results of these studies Applicant would decide whether to proceed with more detailed studies, and the preparation of an application for license to construct and operate the project. Applicant estimates that the cost of the work to be performed under the preliminary permit would be 7,500.

8a. Type of Application: Major License.

b. Project No.: 2973-004.

c. Dated Filed: July 1, 1985.

d. Applicant: Fall River Rural Electric Cooperative, Inc.

e. Name of Project: Island Park.

f. Location: On Henry's Fork of the Snake River at the Bureau of Reclamation's Island Park Dam in Fremont County, Idaho, and affecting U.S. lands within the Targhee National Forest.

g. Filed Pursuant to: 16 U.S.C. 791(a)—825(r).

h. Contact Person: Calvin Wickham, 714 Main Street, Ashton, Idaho 83420.

i. Comment Date: December 23, 1985.

j. Description of Project: The proposed project would utilize the existing releases from the Bureau of Reclamation's Island Park Dam and would consist of: (1) A screened intake structure; (2) a 700-foot-long, 10-foot-diameter siphon conduit at the left (east) abutment; (3) a powerhouse containing two generating units each rated at 2,400-kW operated at a head of 74 feet and at a flow of 480 cfs; (4) an access road to the powerhouse; (5) a 4.16/24.9-kV switch-yard; (6) a 15,000-foot-long underground 24.9-kV transmission line; and (7) a 24.9/44-kV substation. The average annual energy generation is estimated to be 26,889,000-kWh. Applicant estimates that the project construction cost in 1985 would be \$4,300,000.

k. Purpose of Project: Project energy would be fed into Applicant's interconnected system.

l. The notice also consists of the following standard paragraphs: A3, A9, B, C, D1.

9a. Type of Application: Major License.

b. Project No.: 6617-003.

c. Date Filed: November 15, 1984

d. Applicant: Olympus Energy Corporation.

e. Name of Project: Silver Creek.

f. Location: On Silver Creek in Clallam County, Washington, entirely within the Olympic National Forest.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)—825(r).

h. Contact Person: Mr. Jerome E. Livingston, President, Olympus Energy Corporation, 201-215th Street, S.E., Bothell, WA 98021.

i. Comment Date: December 23, 1985.

j. Description of Project: The proposed project would consist of: (1) A 5-foot-high diversion structure at approximate streambed elevation 2,700 msl with an overall length of 35 feet; (2) a 3,640-foot-long, 42-inch-diameter penstock/pipeline; (3) a powerhouse containing two generating units with a total capacity of 3.45 MW operated at a head of 680 feet and at a flow of 80 cfs; (4) a concrete tailrace; and (5) 6.5 miles of three-phase transmission line to the nearest point of intertie located near the forks of the Dungeness and Graywolf Rivers. The annual energy production is anticipated to be 14.0 GWh. The cost of the project is estimated to be \$2,800,000 in 1985 dollars.

This application has been accepted for filing as of August 19, 1982, the submittal date of the Applicant's originally accepted exemption

application pursuant to Eagle Power Co. et al., 28 FERC ¶ 61,061, issued July 18, 1984.

k. Purpose of Project: Project energy would be sold.  
l. This notice also consists of the following standard paragraphs: A9, B, C, D1.

10a. Type of Application: Major License (Under 5 MW).

b. Project No.: 8390-001.

c. Date Filed: July 22, 1985

d. Applicant: PRODEK, INC.

e. Name of Project: Paonia Dam.

f. Location: On Muddy Creek, a tributary to the North Fork Gunnison River, near Paonia, in Gunnison County, Colorado.

g. Filed Pursuant to: 16 U.S.C 791(a)-825(r).

h. Contact Person: Mr. Flake H. Wells III, PRODEK, INC., 3314 E. 51st St., Suite B, Tulsa, OK 74135, (918) 749-7749.

i. Comment Date: December 18, 1985.

j. Description of Project: The proposed project would utilize the existing U.S. Bureau of Reclamation's 199-foot-high, 300-foot-long Paonia Dam and would consist of: (1) A 72-inch-diameter, 370-foot-long steel pipe installed inside the existing 10-foot 6-inch-diameter outlet tunnel; (2) a 72-inch-diameter, 50-foot-long steel pipe exiting the tunnel and connecting to a 72-inch x 54-inch reducing lateral; (3) a 54-inch diameter, 14-foot-long penstock; (4) a 24-inch-diameter, 100-foot-long and a 48-inch-diameter, 100-foot-long bypass line; (5) a 25-foot by 105-foot powerhouse located adjacent to the existing combined low level outlet and spillway stilling basin, containing eight 300 kw Francis turbine-generator units with a total installed capacity of 2,640 kW and producing an estimated average annual generation of 8.2 GWh; (6) eight 30-inch-diameter, 23-foot-long tailrace pipelines discharging water to the existing stilling basin; (7) a 12.45-kV, 1,200-foot-long transmission line interconnecting the project to an existing Delta-Montrose Electric Association line; and (8) 300 feet of new access road, reconditioning of 800 feet of existing road and a new timber bridge across Muddy Creek. Applicant estimates construction cost of \$2.7 million and intends to sell project power to Colorado-Ute Electric Association, Inc.

The proposed project will utilize irrigation and flood control releases without alteration of the normal scheduled pattern or quantity of releases.

k. This notice also consists of the following standard paragraphs: A3, A9, B, C and D1.

11a. Type of Application: Major License.

b. Project No.: 8910-000.

c. Date Filed: January 31, 1985

d. Applicant: Ten Sleep Hydropower, Inc.

e. Name of Project: Ten Sleep Creek.

f. Location: On Ten Sleep Creek, tributary to the Bighorn River, near the town of Ten Sleep, in Washakie County, Wyoming, and affecting lands within the Bighorn National Forest.

g. Filed Pursuant to: 16 U.S.C 791(a)-825(r).

h. Contact Person: Jeff Burt, 165 Wright Brothers Drive, Salt Lake City, UT 84116.

i. Comment Date: December 19, 1985.

j. Description of Project: The proposed run-of-river project would consist of: (1) An 8-foot-high, 45-foot-long reinforced-concrete dam having a sluice gate and a screened intake at elevation 7600 feet; (2) a 30,200-foot-long underground steel penstock varying in size from 42-inch-diameter to 32-inch-diameter; (3) a powerhouse containing a generating unit rated at 9,500-kW operated at a head of 1,890 feet and at a flow of 72 cfs; (4) a 40-foot-long tailrace; (5) a 2,400-v/4,160-v/34.5-kV transformer; (6) a 200-foot-long 34.5-kV transmission line; and (7) a 200-foot-long access road to the powerhouse. The average annual energy generation is estimated to be 28 million kWh. Applicant estimates that the total project cost in 1986 would be \$8,806,000.

k. Purpose of Project: Project energy would be sold to The Montana Power Company, the Montana-Dakota Utilities Company, or to the Pacific Power and Light Company through wheeling arrangements to be provided by the Bighorn Rural Electric Association and the Western Area Power Administration.

l. This notice also consists of the following standard paragraphs: A3, A9, B, C.

12a. Type of Application: Preliminary Permit.

b. Project No.: 9348-000.

c. Date Filed: July 11, 1985.

d. Applicant: Ririe Hydro Ltd., Partnership.

e. Name of Project: Ririe Dam.

f. Location: On Willow Creek at the Bureau of Reclamation-administered Ririe Dam in Bonneville-County, Idaho

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Archie R. Ford P.O. Box 1940, Orofino, ID 83544.

i. Comment Date: December 23, 1985.

j. Description of Project: The proposed project would utilize the existing dam and reservoir and would consist of: (1) A 200-foot-long penstock through the outlet conduit; (2) a powerhouse on the southern bank of the outlet channel containing one or two generating units

with a total installed capacity of 2.5 MW and a average annual output of 10.9 GWh; and (3) a transmission interconnection with lines serving the dam or with Utah Power and Light Company transmission lines near the dam.

A preliminary permit, if issued, does not authorize construction. Applicant seeks a 36-month preliminary permit to conduct engineering, economic and environment studies to ascertain project feasibility and to support an application for a license to construct and operate the project. Applicant has stated that no new roads are necessary and that drilling is not anticipated as part of the studies. The estimated cost of permit activities is \$90,000.

k. Purpose of Project: Project output would be sold to Utah Power and Light Company.

l. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C, and D2.

13a. Type of Application: Preliminary Permit.

b. Project No.: 9475-000.

c. Date Filed: September 24, 1985.

d. Applicant: Porthill Hydro Partners.

e. Name of Project: Long Canyon.

f. Location: On Long Canyon Creek in the Kaniksu National Forest, near the town of Porthill, Boundary County, Idaho.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Mr. Louis Rosenman, Attorney at Law, Suite #600, 1350 New York Avenue, Washington, DC 20005.

i. Comment Date: December 23, 1985.

j. Description of Project: The proposed project would consist of: (1) A 4-foot-high diversion dam at elevation 3,200 feet; (2) a 13,500-foot-long, 5-foot-diameter penstock; (3) a powerhouse containing one generating unit with a rated capacity of 6,500 kW; and (4) a 500-foot-long transmission line. Applicant estimates the average annual energy production to be 19.0 GWh.

A preliminary permit does not authorize construction. Applicant seeks issuance of a preliminary permit for a term of 36 months during which it would conduct engineering and environmental feasibility studies and prepare an FERC license application at a cost of \$145,000. No new roads would be constructed or drilling conducted during the feasibility study.

k. Purpose of Project: The proposed power produced is to be sold to Washington Water Power Company.

l. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C, and D2.

14a. Type of Application: Preliminary Permit.

b. Project No.: 9504-000.

c. Dated Filed: October 1, 1985.

d. Applicant: St. Vrain

Environmentalists.

e. Name of Project: North St. Vrain Creek.

f. Location: On North St. Vrain Creek, near Allenspark, in Boulder County, Colorado.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: St. Vrain Environmentalist, c/o Louis Rosenman, Esq., 1350 New York Avenue, #600, Washington, DC 20005 (202) 783-2100.

i. Comment Date: December 23, 1985.

j. Description of Project: The proposed project would consist of: (1) A 4-foot-high, 25-foot-long rock diversion structure; (2) a 30-inch-diameter, 1,700-foot-long steel penstock; (3) a 25-foot by 25-foot powerhouse located at elevation 8,000 feet msl containing a single turbine-generator unit with a rated capacity of 320 kW and producing an estimated average annual generation of 1.125 GWh; (4) a 20-foot-long, 5-foot-deep, 10-foot-wide concrete tailrace; and (5) a 50-foot-long, 12.5-kV transmission line. The project would be located on Roosevelt National Forest lands. Applicant intends to sell project power to Estes Park Power and Light Company.

A preliminary permit if issued, does not authorize construction. Applicant seeks issuance of a preliminary permit to investigate project design alternatives, financial feasibility, environmental effects of project construction and operation, and project power potential. Depending upon the outcome of the studies, the Applicant would decide whether to proceed with an application for development. Applicant estimates that the cost of the studies under permit would be \$145,000.

k. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C, and D2.

15a. Type of Application: Minor License.

b. Project No: 9029-000.

c. Date Filed: March 18, 1985.

d. Applicant: Nelson Creek Power, Inc.

e. Name of Project: Grasshopper Flat.

f. Location: On East and West Forks of Nelson Creek in Shasta County, California.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Mr. Mark Henwood, Henwood Associates, Inc., 1818-11th Street, Suite 4, Sacramento, CA 95814.

i. Comment Date: December 23, 1985.

j. Description of Project: The proposed project would consist of: (1) A 5-foot-high, 60-foot-long, diversion dam at elevation 2,332 feet on East Fork Nelson Creek; (2) a 22-inch-diameter, 700-foot-long pipe; (3) a 7-foot-high, 125-foot-long diversion dam at elevation 2,320 feet on West Fork Nelson Creek; (4) a 34-inch-diameter, 7,180-foot-long penstock; (5) a powerhouse, at elevation, 1,940 feet, with a total installed capacity of 1,035 kW; and (6) a 1,500-foot-long, 12-kV transmission line connecting with an existing transmission line of Pacific Gas and Electric Company (PG&E). No recreational facilities are proposed by the Applicant.

k. Purpose of Project: The estimated 4.16 million KWh generated annually by the project would be sold to PG&E. The estimated cost of the project is \$2,000,000.

l. This notice also consists of the following standard paragraphs: A3, A9, B, C and D1.

16a. Type of Application: License (Over 5MW).

b. Project No: 8620-000.

c. Date Filed: September 26, 1984 and supplemented August 15, 1985.

d. Applicant: Bath County, Kentucky, and Eastern States Energy & Resources, Inc.

e. Name of Project: Cave Run Dam Hydroelectric Project.

f. Location: On the Licking River near the town of Farmers, Bath and Rowan Counties, Kentucky.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Mr. Edward H. Curland, 1700 Broadway, Suite 2501, New York, New York 10019.

i. Comment Date: December 16, 1985.

j. Description of Project: The proposed project would utilize the existing U.S. Army Corps of Engineers' Cave Run Dam and reservoir, and would consist of: (1) The existing outlet works consisting of a trashrack, an enclosed intake structure, a 15-foot diameter circular tunnel and two service and emergency control gates; (2) a new powerhouse of reinforced concrete, approximately 40 feet wide by 100 feet long, to be constructed adjacent to and on the south side of the existing stilling basin, and housing a single 10-MW generator; (3) a proposed 75-foot-wide and 175-foot-long tailrace; (4) a new 69-kV transmission line approximately one-mile-long interconnecting with an existing 69-kV line, owned by East Kentucky Power Cooperative; and (5) appurtenant facilities. Applicant estimates the average annual generation of the project would be 31 GWh.

k. Purpose of Project: All project energy generated would be sold to

Kentucky Utilities Company, and East Kentucky Power Cooperative.

l. This notice also consists of the following standard paragraphs: A3, A9, B, and C.

17a. Type of Application: Preliminary Permit.

b. Project No: 9522-000.

c. Date Filed: October 4, 1985.

d. Applicant: Swift River/Hafslund Company.

e. Name of Project: Baltic Mills.

f. Location: On the Shetucket River in New London County, Connecticut.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Contact Person: Mr. Peter B. Clark, Swift River/Hafslund Company, 10 Harbor Street, Danvers, MA 01923.

i. Comment Date: December 12, 1985.

j. Competing Application: Project No. 9147-000, Date Filed May 1, 1985.

k. Description of Project: The proposed run-of-river project would consist of: (1) An existing 30-foot-high and 500-foot-long dam; (2) a reservoir with a surface area of 500 acres and surface elevation of 100 feet NGVD; (3) an existing intake structure; (4) existing 100-foot-wide and 1000-foot-long canal; (5) an existing powerhouse with 2 new turbine generator units with a total installed capacity of 2,500 kW; (6) an existing 1,500-foot-long tailrace; (7) a new 12.5-kV and 500-foot-long transmission line; and (8) other appurtenances. The existing facilities are owned by Baltic Mills Associates, of Hartford, Connecticut. Applicant estimates an average annual generation of 9,100,000 kWh. Applicant would also study the alternatives of constructing a new powerhouse at the north bank or at the dam in lieu of utilizing the existing canal and powerhouse.

l. Purpose of Project: Project energy would be sold to the Connecticut Power and Light Company.

m. This notice also consists of the following standard paragraphs: A8, B, C and D2.

n. Proposed Scope of Studies under Permit: A preliminary permit, if issued, does not authorize construction.

Applicant seeks issuance of a preliminary permit for a period of 36 months during which time Applicant would investigate project design alternatives, financial feasibility, environmental effects of project construction and operation, and project power potential. Depending upon the outcome of the studies, the Applicant would decide whether to proceed with an application for FERC license. Applicant estimates that the cost of the studies under permit would be \$100,000.

18a. Type of Application: Preliminary Permit.

b. Project No.: P-9415-000.

c. Date Filed: August 21, 1985.

d. Applicant: Wayne E. Gauthier and Lucien F. Langlois.

e. Name of Project: Pulsifer Rips.

f. Location: On the Androscoggin River in Coos County, New Hampshire.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)—825(r).

h. Contact Person: Mr. Lucien F. Langlois, 36 Hill Street, Berlin, NH 03570.

i. Comment Date: December 20, 1985.

j. Competing Application: Project No. 9404, Date Filed August 15, 1985.

k. Description of Project: The proposed project would consist of: (1) A proposed 20-foot-high and 900-foot-long concrete and earth dam with a proposed spillway crest elevation of 854 MSL; (2) a proposed 30-acre reservoir with a storage capacity of 146 acre-feet; (3) a proposed 4,700-foot-long and 18-foot-diameter penstock; (4) a proposed concrete powerhouse to contain two turbine/generators with an installed capacity of 6000 kW; (5) a proposed tailrace; (6) a new 7.2-kV transmission line 900 feet long; and (7) appurtenant facilities. The estimated average annual energy produced by the project would be 42,640,000 kWh.

l. Purpose of Project: The project power will be sold to the Public Service Company of New Hampshire.

m. This notice also consists of the following standard paragraphs: A8, B, C, D2.

n. *Proposed Scope of Studies under Permit*—A preliminary permit, if issued, does not authorize construction. The term of the proposed preliminary permit is 36 months. The work proposed under the preliminary permit would include economic analysis, preparation of preliminary engineering plans, and a study of environmental impacts. Based on results of these studies Applicant would decide whether to proceed with more detailed studies, and the preparation of an application for license to construct and operate the project. Applicant estimates that the cost of the work to be performed under the preliminary permit would be \$46,000.

19a. Type of Application: Exemption from Licensing (5MW or Less).

b. Project No.: 9231-000.

c. Date Filed: May 20, 1985.

d. Applicant: Scott Paper Company.

e. Name of Project: Canyon Lake.

f. Location: On Canyon Creek in Whatcom County, Washington near the town of Deming.

g. Filed Pursuant to: Energy Security Act of 1980 (16 U.S.C. 2705 and 2708).

h. Contact Person: Nicholas J. DeBenedictis, Esquire, Scott Paper Company, Scott Plaza Two, Philadelphia, PA 19113 and Nancy J. Skancke, Esquire, Ross, Marsh and Foster, 888 16th Street, NW., Washington, DC 2006.

i. Comment Date: December 16, 1985.

j. Description of Project: The proposed project would consist of: (1) A 45-foot-long, 8-foot-wide, concrete flume-intake structure at elevation 2,230 feet; (2) an 11,200-foot-long steel penstock varying in diameter from 36 feet to 32 feet; (3) a powerhouse containing two generating units with a combined capacity of 2,620 kW operating under a head of 1,402 feet, producing an annual energy output of 15.5 GWh; (4) a tailrace; (5) a 1.5-mile-long, 34-kV transmission line tying into a Puget Sound Power and Light Company line; (6) an 800-foot-long access road to the diversion structure; and (7) a 1,000-foot-long access road to the powerhouse.

*Purpose of Exemption*—An exemption, if issued, gives an Exemptee priority of control, development, and operation of the project under the terms of the exemption from licensing, and protects the Exemptee from permit or licensee applicants that would seek to take or develop the project.

k. Purpose of Project: Project power would be sold to Puget Sound Power and Light Company.

l. This notice also consists of the following standard paragraphs: A3, A9, B, C, and D3a.

20a. Type of Application: Preliminary Permit.

b. Project No.: 9338-000.

c. Date Filed: July 9, 1985.

d. Applicant: Little Horn Water Group, a Limited Partnership.

e. Name of Project: Little Big Horn Pumped Storage.

f. Location: On East Twin Creek, Little Bighorn River, and tributaries of the Little Bighorn within Bighorn National Forest in Sheridan County, Wyoming.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)—825(r).

h. Contact Person: David F. Palmerlee, 130 South Main, Buffalo, WY 82834.

i. Comment Date: December 18, 1985.

j. Description of Project: The proposed project would consist of: (1) A 235-foot-high, 3,000-foot-long zoned earthfill dam impounding the Half Ounce Reservoir at surface elevation 8,440 feet, with pipelines to; (2) Wagon Box Reservoir, impounded at surface elevation 6,960 feet by a 160-foot-high, 980-foot-long zoned earthfill dam and Wagon Box Powerhouse containing a

generating unit rated at 40 MW, and to; (3) Lick Creek Reservoir, impounded at surface elevation 8,640 feet by a 200-foot-high, 1,100-foot-long zoned earthfill dam with a pipeline to; (4) Dry Fork Reservoir, impounded at surface elevation 6,400 feet by a 300-foot-high, 1,000-foot-long zoned rockfill dam and Dry Fork Powerhouse containing a generating unit rated at 40 MW, with a pipeline to; (5) Ridge Reservoir, impounded at surface elevation 8,435 feet by a 90-foot-high, 3,300-foot-long rockfill dam, with a pipeline to; (6) West Pass Powerhouse containing a generating unit rated at 10.2 MW, with a pipeline to; (7) Taifner Powerhouse containing a generating unit rated at 20 MW, with a pipeline to; (8) Parkman Reservoir, impounded at surface elevation 4,405 feet by a 150-foot-high, 3,250-foot-long zoned earthfill dam and Parkman Powerhouse containing a generating unit rated at 7 MW; and (9) intermediate transmission lines connecting the powerhouses and an 18-mile-long, 230-kV transmission line connecting to an existing Pacific Power and Light Company line. The project would have an average annual generation of 176 GWh.

A preliminary permit, if issued, does not authorize construction. Applicant seeks a 36-month preliminary permit to conduct engineering economic and environmental studies to ascertain project feasibility and to support an application for a license to construct and operate the project. The estimated cost of permit activities is approximately \$7,000,000.

k. Purpose of Project:

The proposed market area for power generated by the project is northern Wyoming and south central Montana.

l. This notice also consists of the following standard paragraphs: A5, A7, A9, B, C, and D2.

#### Standard Paragraphs

A3. Development Application—Any qualified development applicant desiring to file a competing application must submit to the Commission, on or before the specified comment date for the particular application, a competing development application, or a notice of intent to file such an application. Submission of a timely notice of intent allows an interested person to file the competing development application no later than 120 days after the specified comment date for the particular application. Applications for preliminary permit will not be accepted in response to this notice.

A4. Development Application—Public notice of the filing of the initial

development application, which has already been given, established the due date for filing competing applications or notices of intent. In accordance with the Commission's regulations, any competing development applications or notices of intent to file competing development applications, must be filed in response to and in compliance with the public notice of the initial development application. No competing applications or notices of intent may be filed in response to this notice.

**A5. Preliminary Permit**—Anyone desiring to file a competing application for preliminary permit for a proposed project must submit the competing application itself, or a notice of intent to file such an application, to the Commission on or before the specified comment date for the particular application (see 18 CFR 4.36 (1985)). Submission of a timely notice of intent allows an interested person to file the competing preliminary permit application no later than 30 days after the specified comment date for the particular application.

A competing preliminary permit application must conform with 18 CFR 4.30(b) (1) and (9) and 4.36.

**A7. Preliminary Permit**—Any qualified development applicant desiring to file a competing development application must submit to the Commission, on or before the specified comment date for the particular application, either a competing development application or a notice of intent to file such an application. Submission of a timely notice of intent to file a development application allows an interested person to file the competing application no later than 120 days after the specified comment date for the particular application.

A competing license application must conform with 18 CFR 4.30 (b) (1) and (9) and 4.36.

**A8. Preliminary Permit**—Public notice of the filing of the initial preliminary permit application, which has already been given, established the due date for filing competing preliminary permit and development applications or notices of intent. Any competing preliminary permit or development application, or notice of intent to file a competing preliminary permit or development application, must be filed in response to and in compliance with the public notice of the initial preliminary permit application. No competing applications or notices of intent to file competing applications may be filed in response to this notice.

A competing license application must conform with 18 CFR 4.30(b) (1) and (9) and 4.36.

**A9. Notice of intent**—A notice of intent must specify the exact name, business address, and telephone number of the prospective applicant, include an unequivocal statement of intent to submit, if such an application may be filed, either (1) a preliminary permit application or (2) a development application (specify which type of application) and be served on the applicant(s) named in this public notice.

**B. Comments, Protests, or Motions to Intervene**—Anyone may submit comments, a protest, or a motion to intervene in accordance with the requirements of the Rules of Practice and Procedure, 18 CFR 385.210, 385.211, 385.214. In determining the appropriate action to take, the Commission will consider all protests or other comments filed, but only those who file a motion to intervene in accordance with the Commission's rules may become a party to the proceeding. Any comments, protests, or motions to intervene must be received on or before the specified comment date for the particular application.

**C. Filing and Service of Responsive Documents**—Any filings must bear in all capital letters the title "COMMENTS", "NOTICE OF INTENT TO FILE COMPETING APPLICATION", "COMPETING APPLICATION", "PROTEST" or "MOTION TO INTERVENE", as applicable, and the Project Number of the particular application to which the filing is in response. Any of the above named documents must be filed by providing the original and the number of copies required by the Commission's regulations to: Kenneth F. Plumb, Secretary, Federal Energy Regulatory Commission, 825 North Capitol Street, NW., Washington, DC 20426. An additional copy must be sent to: Mr. Fred E. Springer, Director, Division of Project Management, Federal Energy Regulatory Commission, Room 203-RB, at the above address. A copy of any notice of intent, competing application or motion to intervene must also be served upon each representative of the Applicant specified in particular application.

**D1. Agency Comments**—Federal, State, and local agencies that receive this notice through direct mailing from the Commission are requested to provide comments pursuant to the Federal Power Act, the Fish and Wildlife Coordination Act, the Endangered Species Act, the National Historic Preservation Act, the Historical and Archeological Preservation Act, the National Environmental Policy Act, Pub. L. No. 88-29, and other applicable

statutes. No other formal requests for comments will be made.

Comments should be confined to substantive issues relevant to the issuance of a license. A copy of the application may be obtained directly from the Applicant. If an agency does not file comments with the Commission within the time set for filing comments, it will be presumed to have no comments. One copy of an agency's comments must also be sent to the Applicant's representatives.

**D2. Agency Comments**—Federal, State, and local agencies are invited to file comments on the described application. (A copy of the application may be obtained by agencies directly from the applicant.) If an agency does not file comments within the time specified for filing comments, it will be presumed to have no comments. One copy of an agency's comments must also be sent to the Applicant's representatives.

**D3a. Agency Comments**—The U.S. Fish and Wildlife Service and the State Fish and Game agency(ies) are requested, for the purposes set forth in Section 406 of the Energy Security Act of 1980, to file within 60 days from the date of issuance of this notice appropriate terms and conditions to protect any fish and wildlife resources or to otherwise carry out the provisions of the Fish and Wildlife Coordination Act. General comments concerning the project and its resources are requested; however, specific terms and conditions to be included as a condition of exemption must be clearly identified in the agency letter. If an agency does not file terms and conditions within this time period, that agency will be presumed to have none. Other Federal, State, and local agencies are requested to provide any comments they may have in accordance with their duties and responsibilities. No other formal requests for comments will be made. Comments should be confined to substantive issues relevant to the granting of an exemption. If an agency does not file comments within 60 days from the date of issuance of this notice, it will be presumed to have no comments. One copy of an agency's comments must also be sent to the Applicant's representatives.

**D3b. Agency Comments**—The U.S. Fish and Wildlife Service and the State Fish and Game agency(ies) are requested, for the purposes set forth in Section 30 of the Federal Power Act, to file within 45 days from the date of issuance of this notice appropriate terms and conditions to protect any fish and wildlife resources or otherwise carry out the provisions of the Fish and Wildlife

Coordination Act. General comments concerning the project and its resources are requested; however, specific terms and conditions to be included as a condition of exemption must be clearly identified in the agency letter. If an agency does not file terms and conditions within this time period, that agency will be presumed to have none. Other Federal, State, and local agencies are requested to provide comments they may have in accordance with their duties and responsibilities. No other formal requests for comments will be made. Comments should be confined to substantive issues relevant to the granting of an exemption. If an agency does not file comments within 45 days from the date of issuance of this notice, it will be presumed to have no comments. One copy of an agency's comments must also be sent to the Applicant's representatives.

Dated: November 13, 1985.

Kenneth F. Plumb,

Secretary.

[FR Doc. 85-27456 Filed 11-18-85; 8:45 am]

BILLING CODE 6717-01-M

## ENVIRONMENTAL PROTECTION AGENCY

(OPTS-41020 FRL-2924-6)

### Seventeenth Report of the Interagency Testing Committee to the Administrator; Receipt of Report and Request for Comments Regarding Priority List of Chemicals

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

**SUMMARY:** The Interagency Testing Committee (ITC), established under section 4(e) of the Toxic Substances Control Act (TSCA), transmitted its Seventeenth Report to the Administrator of EPA on November 1, 1985. This report, which revises and updates the Committee's priority list of chemicals, adds three chemicals to the list for priority consideration by EPA in the promulgation of test rules under section 4(a) of the Act. The new chemicals are cyclohexane, 2,6-di-*tert*-butylphenol, and diisodecyl phenyl phosphite. None of these chemicals is designated for response within 12 months. The Seventeenth Report is included in this notice. The Agency invites interested persons to submit written comments on the Report, and to attend Focus Meetings to help narrow and focus the issues raised by the ITC's recommendations. Members of the public are also invited to inform EPA if

they wish to be notified of subsequent public meetings on these chemicals. ITC also notes the removal of 7 chemicals from the priority list because EPA has responded to the ITC's previous recommendations for testing of the chemicals.

**DATES:** Written comments should be submitted by December 19, 1985. Focus Meetings will be held on December 16, 1985.

**ADDRESSES:** Send written submissions to: TSCA Public Information Office (TS-793), Office of Pesticides and Toxic Substances, Environmental Protection Agency Rm. E-108, 401 M St., SW., Washington, D.C. 20460.

Submissions should bear the document control number (OPTS-41020).

The public record supporting this action, including comments, is available for public inspection in Rm. E-107 at the address noted above from 8 a.m. to 4 p.m. Monday through Friday, except legal holidays. Focus Meetings will be held at EPA Headquarters, Rm. 2 South Conference Area, 401 M St., SW., Washington, D.C. Persons planning to attend any one of the Focus Meetings and/or seeking to be informed of subsequent public meetings on these chemicals, should notify the TSCA Assistance Office at the address listed below. To insure seating accommodations at the Focus Meeting, persons interested in attending are asked to notify EPA at least one week ahead of the scheduled dates.

**FOR FURTHER INFORMATION CONTACT:** Edward A. Klein, Director, TSCA Assistance Office (TS-799), Office of Toxic Substances, Environmental Protection Agency, 401 M St., SW., Washington, D.C. 20460, Toll Free: (800-424-9065). In Washington, D.C.: (554-1404). Outside the USA: (Operator-202-554-1404).

**SUPPLEMENTARY INFORMATION:** EPA has received the Report of the TSCA Interagency Testing Committee to the Administrator.

#### I. Background

TSCA (Pub. L. 94-469, 90 Stat. 2003 *et seq.*; 15 U.S.C. 2601 *et seq.*) authorizes the Administrator of EPA to promulgate regulations under section 4(a) requiring testing of chemical substances and mixtures in order to develop data relevant to determining the risks that such chemical substances and mixtures may present to health and the environment.

Section 4(e) of TSCA established an Interagency Testing Committee to make recommendations to the Administrator of EPA of chemical substances and

mixtures to be given priority consideration in proposing test rules under section 4(a). Section 4(e) directs the Committee to revise its list of recommendations at least every 6 months as necessary. The ITC may "designate" up to 50 substances and mixtures at any one time for priority consideration by the Agency. For such designations, the Agency must within 12 months either initiate rulemaking or issue in the *Federal Register* its reasons for not doing so. The ITC's Seventeenth Report was received by the Administrator on November 1, 1985, and follows this Notice. The Report adds three substances to the TSCA section 4(e) priority list.

#### II. New Section of 4(e) Priority List

The Seventeenth Report establishes a third section of the priority list. This new section is Part B of the list and contains those chemicals and categories of chemicals "recommended with intent-to-designate." Part A continues to list those chemicals, mixtures, and categories designated for priority consideration and response by EPA within 12 months, and Part C contains those chemicals, mixtures, and categories that have been recommended for priority consideration without being designated for response within 12 months.

The information received following recommendation with intent-to-designate of a chemical, mixture, or category of chemicals may influence the committee either to designate or not designate that chemical mixture, or category for EPA response within 12 months. That decision would be announced in a subsequent report to the Administrator.

#### III. Written and Oral Comments and Public Meetings

EPA invites interested persons to submit detailed comments on the ITC's new recommendations. The Agency is interested in receiving information concerning additional or ongoing health and safety studies on the subject chemicals as well as information relating to the human and environmental exposure to these chemicals. A notice is published elsewhere in today's *Federal Register* adding the three substances recommended in the ITC's Seventeenth Report to the TSCA section 8(d) Health and Safety Data Reporting Rule (40 CFR Part 716). The section 8(d) rule requires the reporting of unpublished health and safety studies on the listed chemicals. These three chemicals will also be added to the TSCA section 8(a) Preliminary Assessment Information

Rule (40 CFR Part 712) published elsewhere in this issue. The section 8(a) rule requires the reporting of production volume, use, exposure, and release information on the listed chemicals.

Focus Meetings will be held to discuss relevant issues pertaining to the chemicals and to narrow the range of issues/effects which will be the focus of the Agency's subsequent activities in responding to the ITC recommendations. The Focus Meetings will be held on December 16, 1985 at EPA Headquarters, Rm. 2 South Conference Area, 401 M St., SW., Washington, D.C. These meetings are intended to supplement and expand upon written comments submitted in response to this notice. The schedule for the Focus Meetings is as follows: 9:30 a.m., cyclohexane; 1 p.m., 2,6-di-*tert*-butylphenol; 2 p.m., diisodecyl phenyl phosphite.

Persons wishing to attend one or more of these meetings or subsequent meetings on these chemicals should call the TSCA Assistance Office at the toll free number listed above at least one week in advance.

All written submissions should bear the identifying docket number (OPTS-41020).

#### IV. Status of List

In addition to adding the three recommendations to the priority list, the ITC's Seventeenth Report notes the removal of seven chemicals from the list since the last ITC report because EPA has responded to the Committee's prior recommendations for testing of the chemicals. Subsequent to the ITC's preparation of its Sixteenth Report, EPA responded to the ITC's recommendations for seven additional chemicals. The seven chemicals removed and the dates of publication in the *Federal Register* of EPA's responses to the ITC for these chemicals are: bisphenol A, May 17, 1985 (50 FR 20691); carbofuran intermediates, July 22, 1985 (50 FR 29761); 2-chloro-1,3-butadiene, August 6, 1985 (50 FR 34546); 1,2-dibromo-4-(1,2-dibromoethyl) cyclohexane, May 8, 1985 (50 FR 19460); diisopropyl biphenyl, May 3, 1985 (50 FR 18920); 2-ethylhexanoic acid, May 17, 1985 (50 FR 20678); isopropyl biphenyl, May 3, 1985 (50 FR 18920).

The current list contains eleven designated substances or groups of substances, two chemicals recommended with intent-to-designate and two recommended substances or groups of substances.

Authority: 15 U.S.C. 2603

Dated: November 8, 1985.

Joseph J. Merenda,

Director, Existing Chemical Assessment Division.

#### Seventeenth Report of the TSCA Interagency Testing Committee to the Administrator, Environmental Protection Agency

##### Summary

Section 4 of the Toxic Substances Control Act of 1976 (TSCA, Pub. L. 94-469) provides for the testing of chemicals in commerce that may present an unreasonable risk of injury to health or the environment. It also provides for the establishment of a Committee (ITC), composed of representatives from eight designated Federal agencies, to recommend chemical substances and mixtures (chemicals) to which the Administrator of the U.S. Environmental Protection Agency (EPA) should give priority consideration for the promulgation of testing rules.

Section 4(e)(1)(A) of TSCA directs the Committee to recommend to the EPA Administrator chemicals to which the Administrator should give priority consideration for the promulgation of testing rules pursuant to section 4(a). The Committee is required to designate those chemicals, from among its recommendations, to which the Administrator should respond within 12 months by either initiating a rulemaking proceeding under section 4(a) or publishing the Administrator's reason for not initiating such a proceeding. At least every 6 months, the Committee makes those revisions in the TSCA section 4(e) Priority List that it determines to be necessary and transmits them to the EPA Administrator.

As a result of its deliberations, the Committee is revising the TSCA section 4(e) Priority List by the addition of three chemicals, and is noting the removal of seven as a result of responses by EPA.

The Priority List traditionally has been divided into two parts: Part A containing those recommended chemicals and groups designated for priority consideration and response by the EPA Administrator within 12 months, and Part B containing chemicals and groups that have been recommended for priority consideration by EPA without being designated for response within 12 months. Although TSCA does not establish a deadline for EPA response to non-designated chemicals and groups, the Committee anticipates that the EPA Administrator will respond in a timely manner. Beginning with this report, the part that

has been called Part B in previous reports will be called Part C.

With this report, the Committee is establishing a third part, to be called Part B, to contain those chemicals and groups "recommended with intent-to-designate." The "recommended with intent-to-designate" category is being established to take advantage of recent rules, published on August 28, 1985, promulgating automatic reporting requirements for non-designated ITC recommendations under the TSCA section 8(a) Preliminary Assessment rule (50 FR 34805) and the TSCA section 8(d) Health and Safety Data Reporting rule (50 FR 34809). The 8(a) and 8(d) rules require the submission to EPA of information on production, use, exposure and unpublished health and safety studies that may not be publicly available. The information received following "recommendation with intent-to-designate" of a chemical or group of chemicals may influence the Committee to either designate or not designate that chemical or group, for EPA response within 12 months, in a subsequent report to the Administrator.

The chemicals being added to the Priority List are presented, together with the types of testing recommended, in the following Table 1:

TABLE 1.—ADDITIONS TO THE SECTION 4(e) PRIORITY LIST, NOVEMBER 1985

Chemical/Group	Recommended studies
A. Designated for response within 12 months.	None.
B. Recommended with intent-to-designate: Cyclohexane <sup>1</sup> (CAS No. 110-82-7).	Health Effects: Chronic toxicity including oncogenicity and neurotoxicity; teratogenicity; reproductive toxicity.
2,6-Di- <i>tert</i> -butylphenol <sup>2</sup> (CAS No. 128-39-2).	Health Effects: Toxicokinetic; chronic toxicity. Chemical Fate: Persistence in aerobic and anaerobic sediments. Ecological Effects: Acute toxicity to benthic organisms; bioconcentration in benthic organisms.
C. Recommended without being designated for response within 12 months: Diisodecyl phenyl phosphite <sup>3</sup> (CAS No. 25550-98-5).	Health Effects: Toxicokinetic; subchronic toxicity including neurotoxicity.

CA Index Names (I<sup>2</sup>C)

<sup>1</sup> Cyclohexane.

<sup>2</sup> Phenol, 2,6-bis(1,1-dimethyl ethyl)-

<sup>3</sup> Phosphorous acid, diisodecyl phenyl ester.

#### TSCA Interagency Testing Committee Statutory Member Agencies and Their Representative

Council on Environmental Quality  
Harvey Doerksen, Member  
Department of Commerce  
Bernard Greifer, Member and

**Chairperson**

Environmental Protection Agency  
 John D. Walker, Member <sup>1</sup>  
 Laurence Rosenstein, Alternate <sup>2</sup>  
 National Cancer Institute  
 Elizabeth K. Weisburger, Member  
 Richard Adamson, Alternate  
 National Institute of Environmental  
 Health Sciences  
 Douglas Bristol, Member <sup>2</sup>  
 National Institute for Occupational  
 Safety and Health  
 Rodger L. Tatken, Member  
 National Science Foundation  
 Rodger W. Baier, Member <sup>3</sup>  
 Jarvis L. Moyers, Alternate <sup>4</sup>  
 Occupational Safety and Health  
 Administration  
 Stephen Mallinger, Alternate

**Liaison Agencies and Their Representatives**

Consumer Product Safety Commission  
 Marilyn Wind <sup>5</sup>  
 Lakshmi Mishra  
 Department of Agriculture  
 Homer E. Fairchild  
 Richard M. Parry, Jr.  
 Department of Defense  
 Edmund Cummings  
 Patrick A. Truman  
 Food and Drug Administration  
 Arnold Borsetti, Vice Chairperson  
 National Toxicology Program  
 Dorothy Canter

**Committee Staff**

Robert H. Brink, Executive Secretary  
 Norma Williams, ITC Coordinator

**Support Staff**

Alan Carpien—Office of the General  
 Counsel, EPA  
 Vera W. Hudson—National Library of  
 Medicine

**Notes**

- (1) Appointed on May 30, 1985.
- (2) Appointed on July 24, 1985.
- (3) Appointed on August 28, 1985.
- (4) Appointed on September 16, 1985.
- (5) Appointed on June 27, 1985.

The Committee acknowledges and is grateful for the assistance and support given the ITC by the staffs or CRCS, Inc., and Dynamac Corporation (technical support prime and subcontractors) and personnel of the EPA Office of Toxic Substances.

**Chapter 1—Introduction**

**1.1 Background.** The TSCA Interagency Testing Committee (Committee) was established under section 4(e) of the Toxic Substances Control Act of 1976 (TSCA, Public Law 94-469). The specific mandate of the Committee is to recommend to the Administrator of the U.S. Environmental

Protection Agency (EPA) chemical substances and mixtures in commerce that should be given priority consideration for the promulgation of testing rules to determine their potential hazard to human health and/or the environment. TSCA specifies that the Committee's recommendations shall be in the form of a Priority List, which is to be published in the Federal Register. The Committee is directed by section 4(e)(1)(A) of TSCA to designate those chemicals on the Priority List to which the EPA Administrator should respond within 12 months by either initiating a rulemaking proceeding under section 4(a) or publishing the Administrator's reason for not initiating such a proceeding. There is no statutory time limit for EPA response regarding chemicals that ITC has recommended but not designated for response within 12 months.

At least every 6 months, the Committee makes those revisions in the section 4(e) Priority List that it determines to be necessary and transmits them to the EPA Administrator.

The Committee is comprised of representatives from eight statutory member agencies, four liaison agencies, and one national program. The specific representatives and their affiliations are named in the front of this report. The Committee's chemical review procedures and priority recommendations are described in previous reports (Ref. 1).

**1.2 Committee's previous reports.** Sixteen previous reports to the EPA Administrator have been issued by the Committee and published in the Federal Register (Ref. 1). Ninety-one entries (chemicals and groups of chemicals) were recommended for priority consideration by the EPA Administrator and designated for response within 12 months. In addition, one chemical and one group of chemicals were recommended without being so designated.

**1.3 Committee's activities during this reporting period.** Between April 1, 1985, and September 30, 1985, the Committee continued to review chemicals from its fourth and fifth scoring exercises, and from nominations by Member Agencies, Liaison Agencies and State Agencies.

The Committee contacted chemical manufacturers and trade associations to request information that would be of value in its deliberations. Most of those contacted provided unpublished information on current production, exposure, uses, and effects of chemicals under study by the Committee.

During this reporting period, the Committee reviewed available information on 85 chemicals. Three chemicals were selected for addition to the section 4(e) Priority List, and 18 were deferred indefinitely. The remaining chemicals are still under study.

On April 4, 1985, the ITC published an Intent-to-Designate notice (50 FR 13419) that listed three chemical substances and described additional information needed by the ITC to reach a more informed decision on whether or not to designate the chemical substances in a subsequent report to the EPA Administrator. The three chemical substances were IH-benzotriazole (CAS No. 95-14-7), C.I. Pigment Green (CAS No. 1328-53-6) and N-ethyl-N-benzylaniline (CAS No. 92-59-1). A deadline of September 1, 1985 was provided for receipt of relevant information.

Information was received on aquatic toxicity, persistence and measured amounts in various environmental water samples for IH-benzotriazole. The information shows that IH-benzotriazole is unlikely to be present in the environment at concentrations that will cause significant environmental effects. The ITC has decided to defer indefinitely further consideration of IH-benzotriazole.

Information received on Pigment Green 7 shows that the water solubility of this pigment is in the range  $2 \times 10^{-14}$  to  $7 \times 10^{-10}$  mg/L at 20 °C. The major purpose in obtaining information on water solubility was to evaluate data from aquatic toxicity tests using the pigment entirely in solution. The extremely low water solubility of Pigment Green 7 obviates aquatic toxicity testing of that sort. The ITC has decided to defer indefinitely further consideration of Pigment Green 7.

None of the requested information was received on N-ethyl-N-benzylaniline. However, other information received by the Committee shows that N-ethyl-N-benzylaniline is: (1) Produced at only one location in the U.S., (2) used as an intermediate in the production of dyes and (3) released to wastewater treatment facilities in low to moderate amounts where it is expected to sorb to sludge solids. Given the potential for low releases to surface waters at just one geographical location, the Committee has decided to defer indefinitely further consideration of N-ethyl-N-benzylaniline.

**1.4 The TSCA section 4(e) Priority List.** Section 4(e)(1)(B) of TSCA directs the Committee to: "... make such revisions in the [priority] list as it determines to be necessary and . . .

transmit them to the Administrator together with the Committee's reasons for the revisions." Under this authority, the Committee is revising the Priority List by adding three chemicals: cyclohexane; 2,6-di-*tert*-butylphenol; and diisodecyl phenyl phosphite. None of these chemicals is designated for response within 12 months. The testing recommended for these chemicals and

the rationales for the recommendations are presented in Chapter 2 of this report.

Seven chemicals are being removed from the Priority List because the EPA Administrator has responded to the Committee's prior recommendations for testing them. They are listed in the following Table 2 with citations to EPA responses:

TABLE 2.—REMOVALS FROM THE TSCA SECTION 4(e) PRIORITY LIST, APRIL 1, 1985 THROUGH SEPTEMBER 30, 1985

Chemical/Group	EPA responses	
	Federal Register citation	Publication date
Bisphenol A	50 FR 20691	May 17, 1985
Carbafuran intermediates	50 FR 23761	July 22, 1985
2-Chloro-1, 3-butadiene	50 FR 34546	Aug. 26, 1985
1,2-Dibromo-4-(1,2-dibromoethyl) cyclohexane	50 FR 15460	May 8, 1985
Diisopropyl biphenyl	50 FR 18920	May 3, 1985
2-Ethylhexanoic acid	50 FR 20678	May 17, 1985
Isopropyl biphenyl	50 FR 18920	May 3, 1985

Removal of 74 entries was noted in previous reports (Ref. 1). To date, 81 chemicals and groups of chemicals have been removed from the Priority List.

With the three recommendations and seven removals noted in this report, 15 entries now appear on the section 4(e) Priority List. The Priority List is divided in the following Table 3 into three parts: namely, Table A, Chemicals and Groups of Chemicals Designated for Response Within 12 Months, Table B, Chemicals and Groups of Chemicals Recommended with Intent-to-Designate, and Table C, Chemicals and Groups of Chemicals Recommended Without Being Designated for Response Within 12 Months. Table 3 follows:

TABLE 3.—THE TSCA SECTION 4(e) PRIORITY LIST, NOVEMBER 1985

Entry	Date of designation
<b>A. Chemicals and Groups of Chemicals Recommended and Designated for Response Within 12 Months</b>	
1. Anthraquinone	Nov. 1984
2. Cumene	Nov. 1984
3. Mercaptobenzothiazole	Nov. 1984
4. Methylcyclopentane	May 1985
5. Octamethylcyclotetrasiloxane	Nov. 1984
6. Pentabromocyclohexane	Nov. 1984
7. Sodium <i>N</i> -methyl- <i>N</i> -oleoyltaurine	Nov. 1984
8. Tetrabromobisphenol A	May 1985
9. Triethylene glycol monomethyl ether	May 1985
10. Triethylene glycol monoethyl ether	May 1985
11. Triethylene glycol monobutyl ether	May 1985
<b>B. Chemicals and Groups of Chemicals Recommended With Intent-To-Designate</b>	
1. Cyclohexane	Nov. 1985
2. 2,6-Di- <i>tert</i> -butylphenol	Nov. 1985
<b>C. Chemicals and Groups of Chemicals Recommended Without Being Designated for Response Within 12 Months</b>	
1. 3,4-Dichlorobenzotrifluoride	May 1984
2. Diisodecyl phenyl phosphite	Nov. 1985

## Reference

(1) Sixteenth Report of the TSCA Interagency Testing Committee to the Administrator, Environmental Protection Agency. TSCA Interagency Testing Committee, May 21, 1985, 50 FR 20930-20939. Includes references to Reports 1 through 15 and annotative list of removals.

## Chapter 2—Recommendations of the Committee

**2.1 Chemicals recommended for priority consideration by the EPA Administrator.** As provided by section 4(e)(1)(B) of TSCA, the Committee is adding the following three chemical substances to the section 4(e) Priority List: cyclohexane; 2,6-di-*tert*-butylphenol; and diisodecyl phenyl phosphite. The recommendation of these chemicals is being made after considering the factors identified in section 4(e)(1)(A) and other available relevant information, as well as the professional judgment of Committee members.

Sections 2.3 and 2.4 of this report present the recommendations and supporting rationales. Section 2.3 presents two recommendations with intent-to-designate. Section 2.4 presents one recommendation without designation for response within 12 months.

**2.2 Chemicals designated for response within 12 months. None.**

**2.3 Chemicals recommended with intent-to-designate but not designated for response within 12 months.**

### 2.3.a Cyclohexane (9 CI)

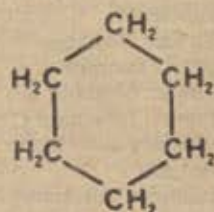
**Summary of recommended studies.** It is recommended that cyclohexane be tested for the following:

#### Health Effects:

Chronic effects including oncogenicity and neurotoxicity (with special emphasis on neuropathology)  
Teratogenicity and reproductive toxicity

#### Physical and Chemical Information

CAS Number: 110-82-7  
Synonyms: Hexamethylene;  
Hexahydrobenzene  
Structural Formula:



Empirical Formula: C<sub>6</sub>H<sub>12</sub>

Molecular Weight: 84

Melting Point: 6.5°C

Boiling Point: 80.7°C

Vapor Pressure: 100 mmHg at 25.5°C

Specific Gravity: 0.7781 (20/4°C)

Solubility in Water: 55 mg/L at 25°C

(Ref. 18, Kirk-Othmer, 1983)

Solubility in Organic Solvents: Soluble in ethanol, ether, acetone, benzene, petroleum ether, and carbon tetrachloride

Log Octanol/Water Partition

Coefficient: 3.18 (estimated; Ref. 20, Konemann, 1981)

Description of Chemical: Colorless, flammable, mobile liquid with bland to slightly pungent odor depending on presence of impurities

#### Rationale for Recommendations

**I. Exposure information—A. Production/use.** Cyclohexane is currently produced by nine domestic manufacturers (Ref. 5, CEH, 1983; Ref. 10, Exxon, 1984; Ref. 43, USITC, 1984). In 1983, the U.S. production volume was reported to be 1.66 billion pounds (Ref. 43, USITC, 1984). Annual domestic production capacity is approximately 2.8 billion pounds (Ref. 5, CEH, 1983).

In 1982, approximately 96 percent of the cyclohexane produced was used in the manufacture of adipic acid and caprolactam via cyclohexanol and cyclohexanone, respectively. The rest was principally consumed in solvent uses. In 1981, about 5 percent of the cyclohexane produced was used as a solvent for cellulose ethers, essential oils, rubber, and paint strippers (Ref. 5, CEH, 1983; Ref. 6, CPS, 1982).

Adipic acid and caprolactam are raw materials used in the production of nylon-6,6 and nylon-6, respectively. Adipic acid, cyclohexanol, and cyclohexanone are also used as solvents and as intermediates in the manufacture

of plasticizers and polyurethane resins (Ref. 5, CEH, 1983).

**B. Evidence for exposure.** The National Occupational Hazard Survey, conducted by the National Institute of Occupational Safety and Health (Ref. 25, NIOSH, 1976) from 1972 to 1974, estimated that 68,863 workers in 4,653 plants were potentially exposed to cyclohexane in the workplace in 1970. Preliminary data from the more recent National Occupational Exposure Survey, conducted by NIOSH from 1980 to 1983, indicated that 42,560 workers, including 12,020 women, were potentially exposed to the compound in the workplace in 1980 (Ref. 26, NIOSH, 1984).

The 8-hour time-weighted average (TWA) permissible exposure limit (PEL) for cyclohexane is 300 ppm (1050 mg/m<sup>3</sup>) based on its potential to cause eye and mucous membrane irritation (Ref. 29, OSHA, 1983); the 8-hour TWA threshold limit value is the same (Ref. 1, ACGIH, 1985). In plant inspections conducted by the Occupational Safety and Health Administration (Ref. 30, OSHA, 1985) from 1981 through 1985, cyclohexane levels in 114 workplace atmosphere samples ranged from not detected to 227 ppm. Available industry monitoring data indicate that cyclohexane concentrations are below the PEL. For example, the arithmetic mean of 56 personal 8-hour TWA samples with potential cyclohexane exposure was determined to be 1.77 ppm (Ref. 40, Texaco, 1984); and, based on 3,586 air samples (personal and area) taken at four facilities with potential cyclohexane exposure (Ref. 35, Phillips, 1984), the average concentrations of cyclohexane ranged from 0.20 to 0.54 ppm and the maximum concentrations ranged from 0.44 to 113 ppm.

Workers may also be exposed to cyclohexane via inhalation or through skin absorption in a wide variety of industries that use the compound. For example, cyclohexane was identified as one of the solvents found in breathing zone samples taken from a number of shoe factors (Ref. 32, Perbellini et al., 1981) in which a commercial hexane mixture was used as a solvent. The percentage concentrations of cyclohexane and n-hexane ranged from 5 to 42 percent and 20 to 60 percent, respectively. These were the highest percentage concentrations noted in the workplace air. The percentage concentrations for other solvents (2-methylpentane, 3-methylpentane, and methylcyclopentane) ranged from 1 to 18 percent. In addition, cyclohexane is present in regular, premium, and unleaded gasoline to the extent of 1.58 volume percent (Ref. 3 API, 1985; Ref. 36,

Sanders and Maynard, 1968); therefore, workers may also be exposed through contact with these refined petroleum products.

General population exposure to cyclohexane may occur, since it has been found in ambient air samples (urban and rural) (Ref. 4, Arnts and Meeks, 1981; Ref. 15, Holzer et al., 1977; Ref. 17, Ioffe et al., 1977), surface water samples (Ref. 9, Ewing et al., 1977), and marine waters (Ref. 22, McAuliffe et al., 1980), suggesting the possibility of widespread dispersal. Additional evidence for population exposure may be inferred from the fact that cyclohexane was qualitatively identified in five of six breast-milk samples taken from women in two states, Pennsylvania, and New Jersey. Cyclohexane was not found in either of two samples from Louisiana (Ref. 42, USEPA, 1985).

Consumer exposure to cyclohexane may occur through dermal contact with, and/or inhalation of, the compound present in paints, paint strippers, and gasoline, and from spills of other refined petroleum products and crude oil.

**II. Chemical fate information.** Cyclohexane is expected to partition largely to the atmosphere with a portion going into water. Existing data indicate that cyclohexane will not persist in air or in surface waters and will degrade rapidly in both media. Therefore, chemical fate testing is not being recommended at this time.

**III. Biological effects of concern to human health—A. Short-term (acute) effects.** In an inhalation toxicity test, mice, rabbits, and cats exposed to cyclohexane at 18,000 ppm became recumbent within 30 minutes (Ref. 11, Flury and Zernik, 1931). The oral LD<sub>50</sub> for the rat was between 8.0 and 39.0 mL/kg (6.22 and 30.3 g/kg) (Ref. 19, Kimura et al., 1971).

**B. Metabolism.** Cyclohexane has been shown to be absorbed by several routes including inhalation in humans (Ref. 24, Mutti et al., 1981) and by oral and dermal routes in laboratory animals (Ref. 8, Elliot et al., 1959; Ref. 37, Sandmeyer, 1984). Cyclohexane administered orally to rabbits was found in expired air and urine. It was oxidized predominantly to cyclohexanol and cyclohexanediol, and to a lesser extent to CO<sub>2</sub> (Ref. 8, Elliot et al., 1959). Cyclohexanol appears to be a metabolite of inhaled cyclohexane in humans (Ref. 31, Perbellini and Bruzone, 1980). Cyclohexane inhibits *in vitro* noradrenaline-induced respiration of hamster brown fat cells (Ref. 34, Pettersson, et al., 1980).

In another metabolism and disposition study (Ref. 27, NTP, 1984), following intravenous administration of 0.76 mg/kg [<sup>14</sup>C]-cyclohexane to adult male Fischer 344 rats, it was demonstrated that 54 percent of the dose was excreted in the breath in the first hour, 80 percent in 24 hours, and 83 percent in 72 hours. After oral administration at doses of 2,000, 1,000, 200, and 100 mg/kg, 78, 76, 62, and 63 percent, respectively, of the dose was excreted in the breath over 72 hours, with the maximum rate of excretion generally occurring within 2 to 8 hours. In the same experiments, 12, 15, 29, and 29 percent, respectively, of the dose was excreted in urine, compared to 14 percent excreted in urine following the intravenous dose. Greater excretion of polar metabolites in urine following the smaller oral doses is attributed to relatively greater metabolism in liver following absorption from the gastrointestinal tract. No significant excretion of <sup>14</sup>C in feces was observed. Unchanged cyclohexane accounted for 93 to 99 percent of the radiolabel excreted in breath, but less than 0.1 percent of the radiolabel in the urine. A maximum of 0.04–0.4 percent of the dose was excreted in breath as the more toxic cyclohexanone or 0.09 to 0.6 percent as cyclohexanal. Less than 0.1 percent of the dose was excreted in the urine as either of these compounds. Cyclohexane was concentrated primarily in adipose tissues, but these concentrations were very transient and total excretion was quite rapid.

**C. Carcinogenicity.** There have been no carcinogenicity studies conducted using currently accepted standard testing protocols. It should be noted, however, that cyclohexane was used as a vehicle control in two studies identified in the published literature. One study was designed to evaluate the carcinogenic potential of middle distillates of shale oil and petroleum (Ref. 7, Easley, et al., 1982). The other study compared the tumor-promoting activity of pristane and a series of n-alkanes (Ref. 16, Horton, et al., 1981). Both studies were not of sufficient duration and were conducted in only one rodent species using a limited number of animals. More importantly, neither investigation was designed to directly address the carcinogenicity of cyclohexane. Hence, because of the intended purpose of each study, these investigations must be considered inadequate for evaluating cyclohexane's carcinogenic potential.

**D. Genotoxicity.** Cyclohexane did not exhibit genotoxic effects in various genotoxicity test systems. It was negative in the Ames test with

*Salmonella typhimurium* strains TA98, TA100, TA1535, and TA1537 with and without metabolic activation (Ref. 23, McCann et al., 1975; Ref. 28, NTP, 1985); in an unscheduled DNA synthesis test with a human lymphocyte cell culture (Ref. 33, Perocco et al., 1983); in a DNA cell-binding assay with *Escherichia coli* (Ref. 21, Kubinski et al., 1981); and in a mouse lymphoma forward mutation assay and a rat bone marrow cytogenetic assay (Ref. 2, API, 1981). In an *in vitro* study (Ref. 39, Seemayer and Manojlovic, 1982), cell cultures of kidneys from Syrian golden hamsters were incubated for 18 hours with cyclohexane at various concentrations (not stated) and subsequently infected with SV40-virus. Inoculation of *in vitro* transformed cells into Syrian golden hamsters induced malignant tumors at high frequency; no other information was given. It was also positive in the SV40 virus-induced cell transformation system (Ref. 39, Seemayer and Manojlovic, 1982).

**E. Reproductive effects, teratogenicity and embryotoxicity.** No published information was found.

**F. Chronic effects.** No published information was found.

**G. Subchronic effects.**—Rats exposed to cyclohexane in an inhalation chamber at concentrations of 300, 1,000 or 2,000 ppm, 6 hours/day, 5 days/week for 2 weeks, showed reduced enzyme activity, especially brain azoreductase (Ref. 38, Savolainen and Pfaffli, 1980). Rabbits exposed to cyclohexane at 434 or 786 ppm for 6 hours/day for 50 days showed no toxic changes in the tissues at the low-dose level and minor microscopic changes in liver and kidneys at the high-dose level (Ref. 41, Treon et al., 1943); however, some of the rabbits died after exposure to cyclohexane at concentrations ranging from 7,400 to 18,500 ppm, 6 hours/day for 10 days.

**H. Neurotoxicity.** Cyclohexane has been shown to be a central nervous system (CNS) depressant. Observed effects have included dizziness, nausea, and unconsciousness (Ref. 37, Sandmeyer, 1984). At high vapor concentrations, convulsions in rabbits have also been reported (Ref. 14, Gosselin et al., 1984). In addition, cyclohexane has been reported to be suspect in producing classical solvent-induced polyneuropathies (Ref. 10, Exxon, 1984). In a description of a clinical case (Ref. 12, Franco et al., 1979), peripheral neuropathy was identified in an automobile painter exposed to paint solvents. Analysis of environmental air samples indicated the presence of cyclohexane, acetone, toluene, xylene, and isobutyl alcohol in concentrations

below the TLV. No tricresyl phosphate or lead was observed. The authors attributed the presence of neurologic symptoms to cyclohexane exposure, basing their conclusion on the symptoms and the apparent absence of substances with known neurotoxic properties.

In one animal study (Ref. 13, Frontali et al., 1981) six to nine rats were intermittently exposed to cyclohexane (9 to 10 hours/day, 5 to 6 days/week) via inhalation for up to 30 weeks at concentrations of 1,500 and 2,500 ppm. Post-exposure histologic examination of both tissue and sectional preparations from the peripheral nervous system did not reveal any pathologic alteration; the CNS was not examined. In the same study, rats treated with *n*-hexane at 2,500 ppm for 30 weeks and 5,000 ppm for 14 weeks developed solvent-induced giant axonal neuropathies.

The experimental evidence accumulated to date, relative to cyclohexane's neurotoxic potential, is very limited. The human experience and the conclusion drawn may be questionable (Ref. 12, Franco et al., 1979), and the animal study (Ref. 13, Frontali et al., 1981) reflects data obtained from histologic observations of only the peripheral nervous system (and not the CNS) following 30 weeks of exposure. No definitive experimental data appear to exist in the published literature on the potential of cyclohexane to induce pathologic changes, not necessarily in the peripheral nervous system but more importantly in the CNS, following long-term chronic exposure.

**I. Rationale for health effects recommendations.** The large production volume and many of the uses of cyclohexane indicate the potential for widespread human exposure. The number of workers occupationally exposed is high, and there is the possibility for general population exposure from cyclohexane's use as a solvent. Cyclohexane has also been detected in body fluids and in ambient air and water. Data are lacking on chronic effects, including oncogenicity. In particular, there is an absence of information on the neurotoxicity (with special emphasis on extensive pathologic examination of the CNS) of cyclohexane following long-term chronic exposure. In addition, no data are available on potential teratogenic and reproductive effects resulting from exposure to this chemical. Based on the potential for human exposure and the lack of adequate information on the health effects of cyclohexane, a chronic toxicity study, including both oncogenicity and neurotoxicity is

needed, as well as testing for teratogenic and reproductive effects.

**IV. Ecological effects.** Several static acute toxicity tests with aquatic organisms have indicated moderate toxicity (LC<sub>50</sub> values greater than 10 and less than 100 mg/L), but measured environmental concentrations (low µg/L or less) and expected rapid degradation in air and water suggest that cyclohexane will not cause adverse ecological effects at concentrations likely to be found in the environment. Therefore, ecological effects testing is not being recommended at this time.

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### 2.3.b 2,6-Di-*tert*-butylphenol

*Summary of recommended studies.* It is recommended that 2,6-di-*tert*-butylphenol (DTBP) be tested for the following:

#### A. Chemical Fate:

Persistence in aerobic and anaerobic sediments

#### B. Health Effects:

Toxicokinetics

Chronic toxicity

#### C. Ecological Effects:

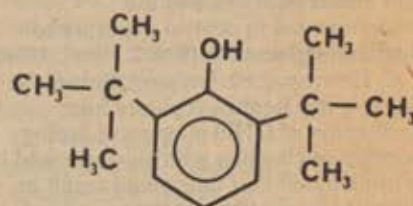
Acute toxicity to benthic organisms

Bioconcentration in benthic organisms

### Physical and Chemical Information

CAS Number: 128-39-2

Synonyms: Phenol, 2,6-bis(1,1-dimethylethyl)-(9 CI); DTBP  
Structural Formula:



Empirical Formula: C<sub>14</sub>H<sub>22</sub>O

Molecular Weight: 206

Melting Point: 39°C (Ref. 2, Ethyl, 1984)

Boiling Point: 253

Vapour Pressure: <0.01 mmHg at 20°C

Specific Gravity: 0.914

Solubility in Water: 2.5 mg/L (Ref. 4,

Geyer et al., 1981) 0.4 mg/L

(estimated; Ref. 9, Lyman et al., 1982)

solubility Organic Solvents: Soluble in isopentane, methyl ethyl ketone, benzene, ethyl alcohol

Log Octanol/Water Partition

Coefficient: 5.43 (estimated; Ref. 9,

Lyman et al., 1982)

Description of Chemical: Light straw-colored crystalline solid

### Rationale for Recommendations

#### I. Exposure information—A.

*Production/use.* DTBP is produced by at least two domestic manufacturers. The quantity of DTBP produced domestically is multimillion pounds per year, but the exact production figures are confidential (Ref. 2, Ethyl, 1984).

DTBP is used primarily (about 95 percent of production) as an intermediate in the production of high-molecular-weight hindered phenolic antioxidants (Ref. 2, Ethyl, 1984). These compounds are used to prevent oxidative degradation of synthetic polymers and plastics (e.g., polypropylene) during processing and service. DTBP is also used directly as an oxidation inhibitor and stabilizer for fuel oils, gasoline, plastics, rubber, and other products, and as an intermediate for synthetic resins, pesticides, and other products.

*B. Occupational exposure.* The National Occupational Hazard Survey conducted by the National Institute for Occupational Safety and Health during 1972-1974 estimated that 2,192 people in six industries were exposed to DTBP in the workplace in 1970 (Ref. 10, NIOSH, 1976). It was reported that occupational exposure to DTBP is confined to reactor operators, maintenance people, and workers involved in bulk shipment loading and off-loading operations. DTBP is manufactured and used as an intermediate primarily in closed

systems, resulting in minimal workplace exposure. Protective clothing (e.g., gloves, goggles, respirators) and local and mechanical exhaust are recommended to control exposure to dust during handling (Ref. 2, Ethyl, 1984).

**C. Environmental release.** Release to wastewater treatment plants from production of DTBP may occur during washup or cleaning with solvents, and it is anticipated that this would result in the release of 0.002 to 0.004 pounds of

DTBP per day. If entrainment occurs during separation of the aqueous and organic phases, releases to wastewater treatment plants could be greater than 6 pounds per day (Ref. 8, Lopez-Avila and Hites, 1981). Disposal of containers or solvents with a residue of 0.1 to 1 percent DTBP may result in environmental releases of 550 to 5,500 pounds per year from processing. DTBP was tentatively identified in three industrial and one domestic wastewater

treatment facilities. These are unpublished data but a description of the analytical procedures was published by Shackelford et al. (Ref. 12, 1983). Releases of DTBP from use may occur during accidental spills of fuels containing DTBP. Available monitoring data for DTBP are summarized in Table 4. The measured concentrations probably result from processing or use-related releases and not from production. Table 4 follows:

TABLE 4.—MEASURED CONCENTRATIONS OF DTBP IN WASTEWATER, RIVER WATER, AND SEDIMENT

Source of DTBP	Sampling date	Concentration	Reference
Specialties Chemical Plant Wastewater	1976-77	0.6 to 0.8 mg/L	Ref. 6, Jungclauss et al. (1978).
Downstream river water	1976-77	1.6 ug/L	Ref. 6, Jungclauss et al. (1978).
Downstream sediment	1976-77	0.1 to 150 mg/kg	Ref. 6, Jungclauss et al. (1978).
Sediment near plant (0 to 27 cm depth)	1976-77	0.5 to 180 mg/kg	Ref. 8, Lopez-Avila and Hites (1981).
Sediment 1 km downstream	1976-77	22 to 760 mg/kg	Ref. 8, Lopez-Avila and Hites (1981).

**II. Chemical fate information—A. Transport and persistence.** Based on the estimated low water solubility and high soil sorption coefficient ( $K_{oc} > 1,000$ ) of DTBP, the chemical, if released to landfills, is expected to remain within the landfills. Limited data on activated sludge biodegradation suggest that less than 10 percent of DTBP would volatilize or mineralize, but more than 45 percent would be transformed to metabolites or remain as unextractable residues in sludge after 5 days at 25 C (Ref. 3, Freitag et al., 1982). Extrapolation from these data to sediments suggests that DTBP, or its oxidation products (quinones), might not be readily biodegradable in sediments.

Measurements of DTBP and oxidation products in sediments at concentrations of 70 to 760 ppm and 7 to 38 ppm, respectively, seem to confirm this suggestion (Ref. 8, Lopez-Avila and Hites, 1981).

**B. Rationale for chemical fate recommendations.** Based on the reported multimillion pound production of DTBP, its occurrence in wastewaters, surface waters, and sediments, and its potential to partition to and persist in sediments, data are needed on the persistence of DTBP in aerobic and anaerobic sediments.

**III. Biological effects of concern to human health—A. Carcinogenicity.** No information was found.

**B. Mutagenicity.** No information was found.

**C. Reproductive effects, teratogenicity, embryotoxicity, and fetotoxicity.** DTBP was nontoxic to mothers in fetal resorption studies with rats at a total dose of 0.25 g for 21 days. The DTBP treatment caused large decreases in the number of litters, implantations, and normal fetuses (Ref. 14, Telford et al., 1962).

**D. Special studies.** Animal tests indicate that DTBP is both a mild eye and skin irritant (Ref. 2, Ethyl, 1984). Doses applied were 1.0 to 8.0 g/kg.

**E. Toxicity—1. Short-term (acute) effects.** The acute toxicity of DTBP is summarized in Table 5:

TABLE 5.—ACUTE TOXICITY OF DTBP IN LABORATORY ANIMALS<sup>1</sup>

Species	Route	LD <sub>50</sub> (mg/Kg)	References
Mouse	Oral	2,995	Ref. 1, Cao et al. (1982).
Mouse	Intravenous	120	Ref. 5, James and Glen (1980).
Rat	Oral	9,200	Ref. 2, Ethyl (1984).
Rabbit	Skin	10,000	Ref. 2, Ethyl (1984).

<sup>1</sup> Sex and number of animals not specified.

**2. Subacute/subchronic.** In subacute feeding studies of DTBP in rats, 10 male Sprague-Dawley rats were fed DTBP at a dose level of 4.55 mmol/kg/day for 3 weeks. Six control rats received a laboratory ration. Two of ten rats fed DTBP died of hemorrhaging during the 3 weeks. In the two dead animals, hemorrhages in the epididymis, muscle,

thymus, pleural cavity, cranial cavity, submaxillary lymph node, and intragastric blood pooling were observed. The prothrombin index was significantly decreased in animals given DTBP (Ref. 13, Takahashi and Hiraga, 1978).

**F. Chronic.** No information was found.

**G. Rationale for health effects recommendations.** DTBP is used in applications where there is the potential for human exposure. The short-term toxicity of DTBP does not appear to be high; however, on continued feeding, pronounced effects on the prothrombin index were observed. In addition, DTBP has an irritant action. Therefore, studies

on the toxicokinetics of DTBP are needed, as well as studies to delineate the extent of its chronic toxicity.

**IV. Ecological effects of concern—A. Acute effects.** No empirical data were found. However, using the data published by Saarikoski and Viluksela (Ref. 11, 1982) and Lipnick et al. (Ref. 7, 1985), and using an estimated log P of 5.43, the LC<sub>50</sub> to fish is estimated to be about 0.28 mg/L. With respect to this estimate, the effect of steric hindrance on the degree of toxicity is unknown.

**B. Chronic effects.** No information was found.

**C. Bioconcentration. A** bioconcentration factor (BCF) of 800 after 1 day was measured in an alga (*Chlorella*) (Ref. 4, Geyer et al., 1981). The measured BCF in a fish (golden orfe), was 680 after 3 days (Ref. 3, Freitag et al., 1982). The estimated BCF of DTBP, based on a log P of 5.43 and using the method of Veith et al., (Ref. 15, 1979) is 8,200; the actual BCF may be lower if DTBP is metabolized.

**D. Rationale for ecological effects recommendations.** The available test data suggest relatively rapid partitioning of DTBP to biological tissues. Based on this information, the lack of empirical data on toxicity, and the measured concentrations of DTBP in sediments, data are needed on the acute toxicity of DTBP to benthic organisms and on the bioconcentration of DTBP in benthic organisms.

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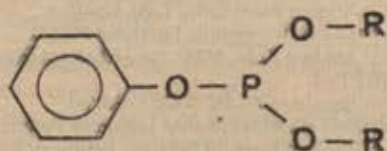
#### 24 Chemicals recommended without designation for response within 12 months

**24.a Diisodecyl phenyl phosphite**  
**Summary of recommended studies.** It is recommended that diisodecyl phenyl phosphite (PDDP) be tested for the following:

**Health Effects:**  
 Toxicokinetics  
 Subchronic toxicity including neurotoxicity

#### Physical and Chemical Information

CAS Number: 25550-98-5  
 Synonyms: Phenyl diisodecyl phosphite;  
 Phosphorous acid, diisodecyl phenyl ester [9 Cl]  
 Structural Formula:



R = isodecyl

R = isodecyl

Empirical Formula: C<sub>26</sub>H<sub>47</sub>O<sub>3</sub>P

Molecular Weight: 438

Melting Point: No information was found.

Boiling Point: 200°C at 5 mmHg (Ref. 16, Witco, 1982)

Vapor Pressure: <1 mmHg at 20°C (Ref. 16, Witco, 1982)

Specific Gravity: 0.94025/15.5°C (Ref. 5, Borg-Warner, 1983)

Solubility in Water: Insoluble (Ref. 5, Borg-Warner, 1983); 0.01-20 ppb (estimated)

Solubility in Organic Solvents: Soluble in most common aprotic organic solvents (Ref. 5, Borg-Warner, 1983)

Log Octanol/Water Partition Coefficient: 7.4 (estimated)

Description of Chemical: Water-white liquid with a slight phenolic odor (Ref. 16, Witco, 1982)

#### Rationale for Recommendations

**I. Exposure information—A. Production/use.** One manufacturer reported production of 1 to 10 million pounds of the compound in 1983. Another manufacturer of PDDP is listed in the public portion of the TSCA Inventory, but volume is not reported. Domestic production and importation volumes of PDDP have not been reported by the U.S. International Trade Commission for the period 1977 through 1983. PDDP, an organophosphite, is used primarily as a heat/light stabilizer and secondary antioxidant for a variety of polymeric materials, including vinyl polymers and polyurethanes (Ref. 11, Minagawa et al., 1983; Ref. 3, Aza et al., 1982), poly(ether-ester) rubbers (Ref. 2, Anon, 1982), and epoxy resins (Ref. 15, Uram, 1982; Ref. 13, Nippon Steel, 1980). The estimated domestic consumption of phosphite antioxidants in plastics applications in 1980 was 25.5 million pounds, with a projected growth to 34.5 million pounds by 1985 (Ref. 6, CEH, 1982).

**B. Evidence for exposure.** The National Occupational Hazard Survey estimated that 900 workers were potentially exposed to PDDP in the workplace in 1970 (Ref. 12, NIOSH, 1978). Manufacturers of PDDP recommend the use of personal protective equipment [e.g., neoprene gloves, aprons, goggles (Ref. 16, Witco, 1982), and organic vapor respirators (Ref. 5, Borg-Warner, 1983)] to limit worker exposure. The compound may cause skin irritation, and one commercial formulation contains 5 percent by weight triphenyl phosphite, a neurotoxicant (Ref. 5, Borg-Warner, 1983).

II. *Chemical fate information.* In the environment, PDDP is expected to sorb to soil and sediment due to its low water solubility and low vapor pressure. No information was found on its persistence, but this phosphite may hydrolyze or biodegrade in surface and ground waters. Environmental releases should be quite low, with most of the release to landfills via discarded bags and polymer trimmings. Therefore, chemical fate testing is not being recommended at this time.

III. *Biological effects of concern to human health—A. Toxicokinetics (absorption, distribution, and excretion).* No information was found.

B. *Genotoxicity.* No information was found.

C. *Short-term (acute) effects.* The acute oral LD<sub>50</sub> value for the rat is 9.40 g/kg (Ref. 5, Borg-Warner, 1983).

D. *Long-term (subchronic/chronic) effects.* No information was found.

E. *Reproductive and developmental effects.* No information was found.

F. *Rationale for health effects recommendations.* Current production data for PDDP are not precise and appear to represent lower limits; e.g., one manufacturer of PDDP is not listed in the public portion of the TSCA Inventory. Available information does indicate that recent annual production of PDDP is at least 1 to 10 million pounds and may be higher. In addition, the dispersive use pattern for the variety of products that may contain PDDP suggests potentially widespread exposures. In addition to such polymeric materials as vinyl polymers and polyurethanes, epoxy resins, and rubber, PDDP is also used in fluorinated refrigeration agents (Ref. 1, Ando et al., 1982), heat-pump working fluids (Ref. 4, Berenbaum et al., 1978), and epoxidized esters and oils (Ref. 9, Kauder, 1968). Other potential uses include an antioxidant for xylene (Ref. 10, Kotaš et al., 1982), a catalyst component for the reaction of olefins with maleic anhydride (Ref. 8, Kao Soap Co., 1979), PVC cross-linking agents (Ref. 14, Sugahara, 1978), and as a solvent for an antimicrobial solution (Ref. 7, Hill, 1982).

No data on the health effects of PDDP were found that would permit an assessment of its potential hazard to humans. However, PDDP is structurally related to triphenyl phosphite, a neurotoxicant (Ref. 5, Borg-Warner, 1983). Because of the lack of health effects data and the exposure potential discussed above, toxicokinetic and subchronic toxicity testing, including neurotoxicity, are being recommended for PDDP.

IV. *Ecological effects of concern.* No information was found on the ecological

effects of PDDP. Releases of PDDP to surface waters are expected to be insignificant, and the PDDP disposed of in landfills should sorb strongly to particulates until hydrolyzed or biodegraded. Therefore, ecological effects testing is not being recommended at this time.

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[FR Doc. 85-27385 Filed 11-18-85; 8:45 am]  
BILLING CODE 6560-50-M

## FEDERAL EMERGENCY MANAGEMENT AGENCY

### Agency Information Collection Submitted to the Office of Management and Budget for Clearance

The Federal Emergency Management Agency (FEMA) has submitted to the Office of Management and Budget the following information collection package for clearance in accordance with the Paperwork Reduction Act (44 U.S.C. Chapter 35).

Type: Extension of 3067-0166.

Title: Crisis Counseling Assistance and Training.

Abstract: In order to obtain a Crisis Counseling Grant, the State IFG Agency named by the Governor, usually the State Mental Health Agency, must send a letter of request and a plan of services to FEMA.

Type of Respondents: State or Local Governments.

Number of Respondents: 3.

Burden Hours: 1,720.

Copies of the above information collection request and supporting documentation can be obtained by calling or writing the FEMA Clearance Officer, Linda Shiley, (202) 646-2624, 500 C Street S.W., Washington, D.C. 20472.

Comments should be directed to Mike Weinstein, Desk Officer for FEMA, Office of Information and Regulatory Affairs, OMB, Rm. 3235, New Executive Office Building, Washington, D.C. 20503.

Dated: November 12, 1985.

Walter A. Girstantas,

Director, Administrative Support.

[FR Doc. 85-27513 Filed 11-18-85; 8:45 am]  
BILLING CODE 6718-01-M

### Agency Information Collection Submitted to the Office of Management and Budget for Clearance

The Federal Emergency Management Agency (FEMA) has submitted to the Office of Management and Budget the following information collection