(49 CFR 1.40) and filed within 15 days from the date of publication of this notice in the Federal Register.

LONG-AND-SHORT HAUL

FSA No. 41163—Phthalic anhydride to Kingsport, Tenn. Filed by Southwestern Freight Bureau, agent (No. B-9020), for interested rail carriers. Rates on phthalic anhydride, in tank carloads, subject to Rule 35 of the uniform freight classification but not less than 100,000 pounds per car, from Chocolate Bayou, Tex., to Kingsport, Tenn.

Grounds for relief-Market competition.

Tariff—Supplement 178 to Southwestern Freight Bureau, agent, tariff ICC 4534.

By the Commission.

[SEAL]

H. NEIL GARSON, Secretary.

[F.R. Doc. 67-13478; Filed, Nov. 15, 1967; 8:47 a.m.]

FOURTH SECTION APPLICATIONS FOR RELIEF

NOVEMBER 13, 1967.

Protests to the granting of an application must be prepared in accordance with Rule 1.40 of the general rules of practice (49 CFR 1.40) and filed within 15 days from the date of publication of this notice in the Federal Register.

LONG-AND-SHORT HAUL

FSA No. 41169—Liquid caustic soda from Calvert, Ky. Filed by O. W. South, Jr., agent (No. A5067), for interested rail carriers. Rates on liquid caustic soda, in tank carloads, from Calvert, Ky., to Fairfax, Lanett, Opelika, and Pepperell, Ala.

Grounds for relief-Market compe-

Tariff—Supplement 160 to Southern Freight Association, agent, tariff ICC S-484.

FSA No. 41170—Livestock from and to Points in Western Trunk Line territory. Filed by Western Trunk Line Committee, agent (No. A-2526), for interested rail carriers. Rates on feeder or stocker livestock, in carloads, from points in Colorado, Idaho, Montana, Nevada, Oregon, Utah, and Wyoming, on the Union Pacific Railroad Co., to points in Western Trunk Line territory.

Grounds for relief-Modified shortline distance formula and grouping.

Tariffs—Supplement 23 to Western Trunk Line Committee, agent, tariff ICC A-4579, and other tariffs named in the application.

By the Commission.

[SEAL]

H. Neil Garson, Secretary.

[F.R. Doc. 67-13474; Filed, Nov. 15, 1967; 8:47 a.m.]

(Notice 493)

MOTOR CARRIER TEMPORARY AUTHORITY APPLICATIONS

NOVEMBER 13, 1967.

The following are notices of filing of applications for temporary authority under section 210a(a) of the Interstate Commerce Act provided for under the new rules of Ex Parte No. MC 67 (49 CFR Part 340) published in the FEDERAL REGISTER, issue of April 27, 1965, effective July 1, 1965. These rules provide that protests to the granting of an application must be filed with the field official named in the Feberal Register publication, within 15 calendar days after the date of notice of the filing of the application is published in the FEDERAL REGISTER. One copy of such protest must be served on the applicant, or its authorized representative, if any, and the protests must certify that such service has been made. The protests must be specific as to the service which such protestant can and will offer, and must consist of a signed original and six copies.

A copy of the application is on file, and can be examined at the Office of the Secretary. Interstate Commerce Commission, Washington, D.C., and also in the field office to which protests are to be transmitted.

MOTOR CARRIERS OF PROPERTY

No. MC 78276 (Sub-No. 2 TA) (Republication), filed October 2, 1967, published FEDERAL REGISTER issue of October 10. 1967, and republished this issue. Applicant: MAZZEO & SONS EXPRESS, 173 Wortendyke Avenue, Emerson, N.J. 07630. Applicant's representative: Herman B. Weckstein, 1060 Broad Street, Newark, N.J. 07102. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Wearing Apparel, on hangers, between the plantsite of Gilbert Carrier Corp. of Secaucus, N.J., on the one hand, and, on the other, points in Bergen. Essex, Hudson, Morris, Passaic, and Union Counties, N.J., and Rockland County, N.Y., for 180 days. Note: The above grant will authorize the carrier to interline with Gilbert Carrier Corp., Secaucus, N.J. The purpose of this republication is to include interlining information. Supporting shipper: Gilbert Carrier Corp., 1 Gilbert Drive, Secaucus, N.J. 07094. Send protests to: District Supervisor, Joel Morrows, Bureau of Operations, Interstate Commerce Commission, 1060 Broad Street, Newark, N.J. 07102

No. MC 118803 (Sub-No. 3 TA), filed November 7, 1967. Applicant: ATLANTIC TRUCK LINES, INC., 179 Ellison Street, Paterson, N.J. 07505. Applicant's representative: Priest & Carson, 71-23 Austin Street, Forest Hill, N.Y. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: (a) Manufactured sheet metal roofing components such as gutter, leader, edging, elbows, mitres, hangers, hooks and other related fittings and component parts, roofing material accessories such

as roofing paper, gutter seal, roofing cement, mastic caulking compounds, roofing paints, and sealers, nails, screws, and related component materials, sheet metal working and roofing tools (other than power) such as riveting guns caulking guns, tinner's snips, tinner's fire pots, and related hand tools, and working supplies used in connection with the erection of buildings, homes, etc. at jobsites, metal manufactured ventilating, air conditioning and heating components such as ducts, pipes, elbows, draft regulating dampers, "T"s, diverters, vents, dryer vents, duct fittings, and other related fittings and component parts; ferrous and nonferrous metals in the form of sheets, coils, tubing, wire, bars, forgings, castings, and extrusions, metal structural and ornamental building elements, accessories and materials such as wall corner beads, wall ties, joint bridging, joint supports, building studs, brackets, louvers and vents, shutters, area walls corrugated sheeting, reflecting and other insulating materials as well as other related components, from the plantsite of L. Bieler & Sons, Inc., National Elbow and Fitting Corp., Bieler International Corp., and Southern Diversified Industries. Inc., located at Hauppauge, Suffolk County, N.Y., to points in Minnesota, New Mexico, Utah, Colorado, North Dakota, South Dakota, Montana, Wyoming, Idaho, Nevada, California, Arizona, Oregon, and Washington; and

Returned shipments of the commodities specified above. From points in the destination States named above, to the plantsite of L. Bieler & Sons, Inc., National Elbow and Fitting Corp., Bieler International Corp., and Southern Diversified Industries, Inc., located at Hauppauge, Suffolk County, N.Y. Re-striction: The operations authorized herein are limited to a transportation service to be performed, under a continuing contract, or contracts, with L. Bieler & Sons, Inc., National Elbow and Fitting Corp., Bieler International Corp., and Southern Diversified Industries, Inc., all of Hauppauge, Suffolk County, N.Y. (b) raw materials and related products used in the manufacturing, fabricating, distribution and sales of the commodities listed in (a) above by L. Bieler & Sons, Inc., National Elbow and Fitting Corp. Bieler International Corp., and Southern Diversified Industries, Inc., from the points in the destination States named in (a) to the plantsite of L. Bieler & Sons, Inc., National Elbow and Fitting Corp., Bieler International Corp., and Southern Diversified Industries, Inc., located at Hauppauge, Suffolk County, N.Y. Restriction: The operations authorized herein are limited to a transportation service to be performed, under contract or contracts, with L. Bieler & Sons, Inc., National Elbow and Fitting Corp., Bieler International Corp., and Southern Diversified Industries, Inc., all of Hauppauge, Suffolk County, N.Y., for 180 days, Supporting shipper: L. Bleler & Sons, Inc., National Elbow and Fitting Corp., Bieler International Corp., Southern Diversified Industries, Inc., Cardinal Industrial Park, Hauppauge, N.Y. 11788. Send protests to: District Supervisor, Joel Morrows, Bureau of Operations, Interstate Commerce Commission, 1060 Broad Street, Newark, N.J. 07102.

No. MC 129230 (Sub-No. 1 TA), filed November 8, 1967. Applicant: WALTER E. RIPKO, Box 354, Republic, Pa. 15475. Applicant's representative: Arthur J. Diskin, 302 Frick Building, Pittsburgh, Pa. 15219. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Sugar, in bags, bales, and boxes, from Cincinnati, Ohio, to Pittsburgh, Belle Vernon, Washington, and Republic, Pa., for 180 days. Supporting shipper: Colonial Sugars Co., Gramercy Refinery, Gramercy, La. 70052. Send protests to: Frank L. Calvary, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 2109 Federal Building, 1000 Liberty Avenue, Pittsburgh, Pa. 15222.

No. MC 29423 (Sub-No. 1 TA), filed November 8, 1967. Applicant: ADBY CONSTRUCTION & TRANSPORT CO. LTD., 7204 18th Avenue, Edmonton, Alberta, Canada. Applicant's representa-tive: Howard C. Burton, 504 Strain Building, Great Falls, Mont. 59401. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Lime, in bags from ports of entry at or near Roosville, Mont.; Eastport, Idaho, and Porthill, Idaho, and Montana; and lumber from Laurier, Wash., on the international boundary line between the United States and Canada to points in Washington, Idaho, and Montaa; and lumber from points in Flathead and Lincoln Counties, Mont., to the port of entry at or near Roosville, Mont., on the international boundary line between the United States and Canada, for 180 days, Supporting shippers: Cooper-Widman, Ltd., Post Office Box 2069, Vancouver 3, Canada, Summit Lime Works, Ltd., Post Office Box 700, Lethbridge, Alberta, Canada, Send protests to: Paul J. Labane, District Supervisor, Interstate Com-merce Commission, Bureau of Operations, 251 U.S. Post Office Building, Billings, Mont. 59101.

By the Commission.

[SEAL]

H. NEIL GARSON, Secretary,

[F.R. Doc. 67-13475; Filed, Nov. 15, 1967; 8:48 a.m.]

[Notice 50]

MOTOR CARRIER TRANSFER PROCEEDINGS

NOVEMBER 9, 1967.

Synopses of orders entered pursuant to section 212(b) of the Interstate Commerce Act, and rules and regulations prescribed thereunder (49 CFR Part 279), appear below:

As provided in the Commission's special rules of practice any interested person may file a petition seeking reconsideration of the following numbered proceedings within 20 days from the date of publication of this notice. Pursuant to section 17(8) of the Interstate Commerce Act, the filing of such a petition will postpone the effective date of the order in that proceeding pendings its disposition. The matters relied upon by petitioners must be specified in their po-

sitions with particularity.

No. MC-FC-69810. By order of October 30, 1967, the Transfer Board approved the transfer to Cowboy Van Lines, Inc., 1785 Chester Street, Aurora, Colo. 80101, of the operating rights of K. P. Moving & Storage, Inc., 3722 Chestnut Place, Denver, Colo. 80216, in certificates Nos. MC-126749 (Sub-No. 2) and MC-126749 (Sub-No. 9), and a portion of the operating rights in certificate No. MC-126749 (Sub-No. 8), issued December 13, 1965, December 20, 1966, and October 4, 1966, respectively, authorizing the transportation, over irregular routes, of general commodities, except commodities in bulk, household goods, and other specified commodities, between Denver. Co., on the one hand, and, on the other, points within 15 miles of Denver, with specified exceptions, of household goods, between Boulder, Colo., on the one hand, and, on the other, points in Iowa, Kansas, Missouri, Nebraska, Illinois, Indiana, and Wisconsin, and of household goods, as defined, between points in Montrose, Delta, and Gunnison Counties, Colo., on the one hand, and on the other, points in Utah on and east of U.S. Highway 91, and those in Colorado on and west of U.S. Highway 85.

No. MC-FC-69848 (Republication). By order entered October 31, 1967, the Transfer Board, on reconsideration, approved the transfer to Bonita Motor Line, Inc., Kansas City, Mo., of an additional portion of the operating rights in certificate No. MC-79619 issued July 13, 1967, to Eagle Express, Inc., Kansas City Mo., supplementing the previous order entered herein on September 8, 1967. The operating rights transferred, as modified are as follows: General commodities, with usual exceptions, over regular routes, between Kansas City, Kans., and Rich Hill, Mo., serving the intermediate points of Kansas City, Passaic, and Butler, Mo.; and between Kansas City, Kans., and Walker, Mo., serving the intermediate and off-route points of Kansas City, Prairie City, Papinsville, Rockville, Schell City, Taberville, Fair Haven, and Harwood, Mo., those within 5 miles of the intermediate and off-route points named; Lumber, cement, sheet metal, brick, meat scraps, and tankage, over a regular route, from Kansas City, Kans., to Schell City, Mo., serving no intermediate points; livestock, oil in drums and packages, tires, batteries, packinghouse products as defined by the Commission, feed, tankage, and cheese boxes, over a regular route, from Kansas City, Kans., to Rockville, Mo., serving the intermediate and off-route points within 8 miles of Rockville for delivery only; livestock, cheese, and empty oil drums, over regular routes, from Rockville, Mo., to Kansas City, Kans., serving the intermediate and off-route points within 8 miles of Rockville for pickup

only, and from Rockville over the route specified next above to Kansas City, Kans.; brick and machinery, over irregular routes, from Parsons and Weir, Kans., to Schell City, Mo.; and threshing machines, over irregular routes, from Des Moines, Iowa, to Schell City, Mo. Tom B. Kretsinger, 450 Professional Building, Kansas City, Mo., attorney for applicants.

No. MC-FC-69941. By order of October 31, 1967, the Transfer Board approved the transfer to East Side Cartage, Inc., Toledo, Ohio, of the corrected certificate of registration in No. MC-120128 (Sub-No. 1) issued June 18, 1965, to Glenn O. Tonjes, doing business as East Side Cartage, Toledo, Ohio, and evidencing a rights of the holder to engage in interstate or foreign commerce corresponding in scope to the grant of authority in certificate of public convenience and necessity No. 8376-I, dated September 22, 1958, issued by the Public Utilities Commission of Ohio. Charles R. Barefoot, Jr., 640 Spitzer Building, Toledo, Ohio 43604, attorney for applicants.

No. MC-FC-69955. By order of October 31, 1967, the Transfer Board approved the transfer to Providence-Springfield Despatch, Inc., Providence, R.I., of the operating rights in certificate No. MC-59666 issued March 3, 1942, to Phillip A. Wheeler, doing business as Providence-Springfield Despatch, Providence, R.I., authorizing the transportation of general commodities, with exceptions, over regular routes, between Providence, R.I., and Holyoke, Mass. Henry E. Laliberte, 49 Westminster Street, Providence, R.I. 02903, attorney for applicants.

No. MC-FC-69981. By order of October 30, 1967, the Transfer Board approved the transfer to Wagner Tours, Inc., North Haledon, N.J., of the operating rights in certificate No. MC-44252 issued May 17, 1955, to Herman Wagner and Clara Wagner, doing business as Wagner Tours, North Haledon, N.J., authorizing the transportation of: Passengers and their their baggage, restricted to traffic originating at the points and in the territory indicated, in charter operations, from Paterson, N.J., and points in New York and New Jersey within 15 miles of Paterson, to points in New Jersey and New York, and those in Pennsylvania on and east of U.S. Highway 11, and return. Samuel A. Wiener, 115 Market Street, Paterson, N.J. 07508, attorney for applicants.

No. MC-FC-69984. By order of October 31, 1967, the Transfer Board approved the transfer to Lucien Bisson, Inc., a corporation, Bath, Maine, of certificate of registration No. MC-99625 (Sub-No. 1) issued December 22, 1965, to Lincoln's Motor Express, a corporation, South Portland, Maine, authorizing the transportation, in interstate or foreign commerce of: Freight or merchandise, between points in Maine. David R. Hastings, LL, 8 Portland Street, Fryeburg, Maine 04037, attorney for applicants

No. MC-FC-69985. By order of October 30, 1967, the Transfer Board approved the transfer to Gearharts Moving & Storage, Inc., Altoona, Pa., of the operating rights in certificate No. MC-37081 issued January 13, 1966, to William Gearhart and Patricia Louise Gearhart, doing business as Dinges Transfer, Altoona, Pa., authorizing the transportation of household goods between Altoona, Pa., and points within 25 miles thereof, on the one hand, and on the other, points in Delaware, Maryland, Michigan, New York, New Jersey, Ohio, Virginia, West Virginia, and the District of Columbia; electric refrigerators in crates, from Connersville, Ind., to Altoona and Johnstown, Pa.; and electric ranges and ironers, in crates, from Mount Clemens, Mich., to Altoona and Johnstown, Pa. Leo C. Mullen, 1311 12th Street, Altoona, Pa. 16601, attorney for applicants.

No. MC-FC-69986. By order of October 31, 1967, the Transfer Board approved the transfer to French, Lt., of Houston, Inc., Houston, Tex., of Certificate of registration No. MC-120571 (Sub-No. 1) Issued January 29, 1965, to Coastal Vacuum Trucks, Inc., authorizing the transportation of commodities in interstate or foreign commerce, between points in Texas. Austin L. Hatchell, Perry-Brooks Building, Austin, Tex. 78701, attorney for applicants.

No. MC-FC-70002. By order of October 30, 1967, the Transfer Board approved the transfer to Willis Hash and Walter Meadows, Jr., doling business as Jarrell Transfer, Midway, W. Va., of the operating rights in certificate No. MC-91281 issued March 22, 1941, to Charley

Clarence Jarrell, doing business as Jarrell Transfer, Coal City, W. Va., authorizing the transportation of: Household goods, over irregular routes, be t ween points and places in Raleigh, Mercer, and Wyoming Counties, W. Va., on the one hand, and, on the other, points and places in Virginia, North Carolina, and Kentucky, Kermit A. Locke, 100 Heber Street, Beckley, W. Va. 25801, attorney for applicants.

[SEAL]

H. NEIL GARSON, Secretary.

[P.R. Doc. 67-13476; Filed, Nov. 15, 1967; 8:48 a.m.]

[Notice 51]

MOTOR CARRIER TRANSFER PROCEEDINGS

NOVEMBER 9, 1967.

Synopses of orders entered pursuant to section 212(b) of the Interstate Commerce Act, and rules and regulations prescribed thereunder (49 CFR Part 279),

appear below:

As provided in the Commission's special rules of practice any interested person may file a petition seeking reconsideration of the following numbered proceedings within 20 days from the date of publication of this notice. Pursuant to section 17(8) of the Interstate Commerce Act, the filing of such a petition will postpone the effective date of the order in that proceeding pending its disposition. The matters relied upon by petition-

ers must be specified in their petitions with particularity.

No. MC-FC-70049. By order of November 9, 1967, the Transfer Board approved the transfer to B & G Transport, Inc. St. Pauls, N.C., of certificate Nos. MC-15242, MC-15242 (Sub-No. 1), and MC-15242 (Sub-No. 5), issued March 24, 1947, August 21, 1947, and June 3, 1955, respectively, to Thurman Cary Dowless, doing business as T. C. Dowless Transfer, Bladenboro, N.C., and authorizing the transportation of: Peanuts, from Bladenboro, N.C., and points in North Carolina within 15 miles of Bladenboro, to Franklin and Suffolk, Va., and places in North Carolina; tobacco, from Mullins and Lake City, S.C., and points in South Carolina within 25 miles of those points, and Bladenboro, N.C., to Danville, Lynchburg, Richmond, and Norfolk, Va.; agri-cultural implements from Lynchburg, Va., Charlette, Hickory, Wilson, and Winston-Salem, N.C., to Bladenboro, N.C., and points in North Carolina within 50 miles of Bladenboro; and various other commodities between specified points in North Carolina, Virginia, Maryland, Pennsylvania, Delaware, New York, New Jersey, the District of Columbia, and South Carolina. W. Osborne Lee, Jr., 208 East Fifth Street, Lumberton, N.C. 28538; attorney for applicants.

[SEAL]

H. NEIL GARSON, Secretary.

[F.R. Doc. 67-13477; Filed, Nov. 15, 1967; 8:48 a.m.]

CUMULATIVE LIST OF PARTS AFFECTED—NOVEMBER

The following numerical guide is a list of the parts of each title of the Code of Federal Regulations affected by documents published to date during November.

3 CFR Page	7 CFR—Continued Page	14 CFR—Continued Page
The state of the s		PROPOSED RULES:
PROCLAMATIONS: 3279 (modified by Proc. 3820) _ 15701	PROPOSED RULES:	
3290 (see Proc. 3820) 15701	5115435 72315546	2715676 2915676
3328 (see Proc. 3820) 15701	82215393	39 15490, 15491, 15588
3386 (see Proc. 3820) 15701	89115393	7115117-15121,
3389 (see Proc. 3820) 15701	89215393	15491-15493, 15546-15548, 15588,
3509 (see Proc. 3820) 15701	90515116	15589, 15712.
3531 (see Proc. 3820) 15701	90615394	9315589
3541 (see Proc. 3820) 15701 3693 (see Proc. 3820) 15701	907 15488	12115676 20215676
3694 (terminated in part by	90815394	20315676
Proc. 3818) 15467	91215436 91315395	200
3712 (terminated in part by	95915177	15 CFR
Proc. 3818) 15467	989 15488	015222
3744 (terminated in part by	1049 15489	7015154
Proc. 3818) 15467	106415490	20415104, 15391
3779 (see Proc. 3820) 15701	109015437	230 15105, 15636
3794 (see Proc. 3820) 15701 3818 15467	1125 15178	
381915667	1131 15588	16 CFR
382015701	8 CFR	13 15105-15107, 15470, 15748-15750
	1000000	1415525
Executive Orders:	10315469	15 15470
2295 (modified by PLO 4313) _ 15429	212	17 15540
4702 (revoked in part by PLO		22815525
4315) 15482 8652 (revoked in part by PLO	9 CFR	22915529
4317) 15482	7615240	230
10530 (see EO 11378) 15237	78	23215533
10682 (see EO 11378) 15237	9215707	23315534
10807 (amended by EO	13115469	23415536
11381) 15629		235 15538
10903 (amended by EO	10 CFR	236 15538
11380) 15627	PROPOSED RULES:	23715539
11034 (amended by EO	2015432, 15762	238 15540
11380) 15627		23915541
1137815237 1137915625	12 CFR	24015542
1138015627	1 15544	41215584 41315424
1138115629	21915389	PROPOSED RULES:
	55615707, 15747	THE RESERVE TO SERVE
5 CFR	56315634	24115715
213 15703	57115708	24215681 30015180
71315631	Proposed Rules:	30010100
The state of the s	54515763	17 CFR
7 CFR		20015470
	13 CFR	AVVIOLENCE AVAIV
51 15066, 15073	106 15065	18 CFR
319	10815149	315239
71115704	120 15634	10115670
15705	122 15635	14115670
129	PROPOSED RULES:	PROPOSED RULES:
15076	107 15399	
15420 15524 15621	12115184	215714 1415714
15490 15690	14 CFR	14115434
91315430 91515669	Control of the Contro	26015434
16577	2115472	
	3915094, 15153, 15154, 15390, 15421, 15472.	19 CFR
	15523, 15579, 15635.	415390
	71 15094,	10 15424
	15095, 15154, 15523, 15524, 15579,	14 15155
	15635, 15636.	16
101515076 106715099	73 15096	20 CER
1120	75 15636	20 CFR
1125	91 15422, 15708	39615471
1126	97 15423, 15473, 15580	40115544
1132 15388 1137 15389	14115583	21 CFR
1137	14515670 20715096	
142115632, 157632	20815097	415709 12015107, 15120, 15424, 15578
146415632, 15706	24115098	121 15108, 15109, 15155, 15545

FEDERAL REGISTER

21 CFR—Continued Page	32 CFR—Continued Page	43 CFR—Continued Page
133 15109	55215115	PUBLIC LAND ORDERS-Continued
148c 15425	71015115	4303
166 15390		430415427
PROPOSED RULES:	32A CFR	430515428
2815116	BDSA (Ch. VI):	430615428
20	M-11A	430715428
22 CFR		430815428
	33 CFR	430915428
PROPOSED RULES:	204 15673	431015429
20115116	204 100/3	4311 15429
	35 CFR	431215429
23 CFR		431315429
25515792	61 15641	431415482
200	04 650	431515482
24 CFR	36 CFR	431615482 431715482
	7 15391, 15710, 15750	4318
200 15425, 15586, 15636	PROPOSED RULES:	
20315639	715761	PROPOSED RULES:
20715640		172015546
22015640	39 CFR	CALCADA TO THE PARTY OF THE PAR
222 15640 809 15640	13115587	45 CFR
80910040	82115480	8115158
25 CFR	82215480, 15481	531 15641
The state of the s	82315099	002
4115471		46 CFR
26 CFR	Proposed Rules:	
	Ch. I15643	1015754
1 15421, 15671	41 CFR	PROPOSED RULES:
301 15241, 15483		Ch. TV15438
Proposed Rules:	1-5	PRODUCES AND CONTRACTOR OF THE PROPERTY OF THE
1 15167, 15393, 15758	6-6015741	47 CFR
	6-7515427	015472, 15675
28 CFR	50-20415641	7315161, 15162, 15545, 15711
0 15425	101–26 15754	PROPOSED RULES:
	42 CFR	
29 CFR		215180, 15712
526 15425	PROPOSED RULES:	7315679
786 15425	7315178	8715712
1500 15478, 15479		8915180, 15680 9115180
PROPOSED RULES:	43 CFR	9315180, 15680
515396	PUBLIC LAND ORDERS:	00
6 15396		49 CFR
715396	1583 (see PLO 4307) 15428	
52615712	1630 (see PLO 4315) 15482 3263 (revoked in part by PLO	15710
	4307) 15428	10315484
31 CFR	3634 (revoked in part by PLO	11415484
306 15672	4302) 15427	Proposed Rules:
	4236 (see PLO 4317) 15482	28815589
32 CFR	4266 (see PLO 4317) 15482	In the second se
6615111	4270 (amended by PLO 4312) _ 15429	50 CFR
127 15112	430115098	32 15166, 15586, 15587, 15642, 15675
53615113	430215427	3315711, 15756

FEDERAL REGISTER

VOLUME 32 · NUMBER 222

Thursday, November 16, 1967 • Washington, D.C.
PART II

Department of Transportation = Federal Highway Administration

Initial Federal Motor Vehicle Safety Standards

New Pneumatic Tires and Tire Selection and Rims





Title 23—HIGHWAYS AND VEHICLES

Chapter II-Vehicle and Highway Safety

[Docket No. 18]

PART 255-INITIAL FEDERAL MOTOR VEHICLE SAFETY STANDARDS

New Pneumatic Tires and Tire Selection and Rims

A proposal to amend § 255.21 of Part 255, Initial Federal Motor Vehicle Safety Standards, by adding Standard No. 109, New Pneumatic Tires-Passenger Cars; and Standard No. 110. Tire Selection and Rims-Passenger Cars; was published in the Federal Register on July 22, 1967 (32 F.R. 10812).

Interested persons have been afforded an opportunity to participate in the

making of the amendment.

Compliance with the labeling requirements of Standard No. 109, established in accordance with section 201 of the National Traffic and Motor Vehicle Safety Act of 1966 (15 U.S.C. 1421), and the tread wear indicator requirements found in the standard may necessitate the modification of tire molds. Several tire manufacturers requested that additional time be allowed to modify these tire molds. After evaluation of all data received, it was determined that an effective date of August 1, 1968, for paragraphs S4.2.1 and S4.3 would provide a reasonable amount of time to accomplish the necessary mold modifications.

Many comments stated that no practical way is known to permanently affix a label onto the tire sidewall, as would have been required by proposed paragraph S4.3.1 until such time as a label is molded into or onto the tire. Accordingly, S4.3.1 of Standard No. 109 has been modified to permit, until August 1, 1968, the use of a label or tag containing the required labeling information not permanently molded into or onto the tire.

Many comments objected to the limitations imposed by the maximum tire section width dimensions specified in the tables of the notice. The Administrator has determined that additional dimensional latitude is necessary, and therefore Standard No. 109 specifies that to provide for tire growth, protective side ribs, ornamentation, manufacturing tolerances, and design differences for each tire size designation actual tire section width and overall tire width may exceed the section width specified in Table I of the Standard by 7 percent.

In response to requests, additional tire size designations and load/inflation schedules were added when necessary information was available. In addition, Table I of Standard No. 109 and Table II of Standard No. 110 have been combined

to collate related information.

Persons desiring an amendment to Standard No. 109 adding tires not presently listed, should submit sufficient pertinent information relative to these tires in 10 copies to the Secretary of Transportation: Attention: Motor Vehicle Safety Performance Service, National Highway Safety Bureau, Federal Highway Administration, U.S. Department of Transportation, Washington, D.C. 20591.

Data received have shown that the rim references indicated in the proposed Standards were inadequate in coverage. Therefore, a more comprehensive list of foreign and domestic trade association publications containing appropriate rim standards or practices has been referenced in the Standards.

Data received demonstrated that the bead unseating and tire strength requirements were inappropriate for certain groups of small tires. Accordingly, tires were regrouped and the test values revised to provide requirements for these small tires that are porportional to the requirements for other sizes of tires.

Although Standard No. 109 applies to tires for use on passenger cars manufactured after 1948, some of the tires covered by the Standard may also be used

on earlier model vehicles.

The testing procedures set forth in the Standard, size designations, and related data are based upon existing standards or practices using information furnished by such organizations as the Society of Automotive Engineers, Federal Trade Commission, Tire and Rim Association, European Tire and Rim Technical Organization, Japanese Standards Association, Japan Automobile Tire Manufacturers Association, Rubber Manufacturers Association, Tyre Manufacturers Conference, Ltd., and the Society of Motor Manufacturers and Traders, Ltd.

To permit production of sufficient quantities of tires complying with the requirements of Standard No. 109 after its effective date of January 1, 1968, Standard No. 110 applies to passenger cars manufactured on or after April 1,

A single table of load/pressure values for radial ply tires was included in the notice and this was supported by many comments. Other comments stressed the importance of including different load/ pressure values for optimum tire deflections. Although a single table of load/ pressure schedules combining these values for these radial ply tires would be desirable, it was not considered advisable to include such a table in the standard promulgated under the present notice.

In accordance with section 201 of the Act, S4.3 of Standard No. 109 requires that each tire be labeled with the name of the manufacturer or his brand name and an approved code mark to permit the tire seller to identify the tire manufacturer upon the purchaser's request. Any tire manufacturer desiring an approved code mark should apply for his code number assignment to the Secretary of Transportation; Attention: Motor Vehicle Safety Performance Service, National Highway Safety Bureau, Federal Highway Administration, U.S. Depart-ment of Transportation, Washington, D.C. 20591.

Several comments, including the suggested use of a "load range" system, will

be considered for future rule making. (See 32 F.R. 14279.)

Since it was clearly the intent of the Congress that, to enhance the safety of the general public, Federal Motor Vehicle Safety Standards for tires become effective as soon as practicable, and since no adverse comments were received pertinent to the proposed effective date presented in the advance notice of proposed rule making (32 F.R. 2417), at a Government-industry technical meeting, and in the notice of proposed rule making (32 F.R. 10812), and no undue burden was demonstrated, good cause is shown that an effective date earlier than 180 days after issuance is in the public interest.

In consideration of the foregoing, § 255.21 of Part 255, Initial Federal Motor Vehicle Safety Standards, is amended by adding the standards set forth below. Standard No. 109 becomes effective January 1, 1968, and Standard No. 110 becomes effective April 1, 1968.

(Secs. 103, 119, National Traffic and Motor Vehicle Safety Act of 1966 (15 U.S.C. 1392, 1407); delegation of authority of Mar. 31, 1967 (32 F.R. 5606), as amended Apr. 6, 1967 (32 F.R. 6495), July 27, 1967 (32 F.R. 11276), Oct. 11, 1967 (32 F.R. 14277), Nov. 8, 1967)

Issued in Washington, D.C., on November 8, 1967

LOWELL K. BRIDWELL, Federal Highway Administrator.

MOTOR VEHICLE SAFETY STANDARD NO. 109 NEW PNEUMATIC TIRES-PASSENGER CARS

S1. Purpose and scope. This standard specifies tire dimensions and laboratory test requirements for bead unseating resistance, strength, endurance, and high speed performance; defines tire load rat-

ings; and specifies labeling requirements. S2. Application. This standard applies to new pneumatic tires for use on passenger cars manufactured after 1948.

S3. Definitions.

"Bead" means that part of the tire made of steel wires, wrapped or reinforced by ply cords, that is shaped to fit the rim.

"Bead separation" means a breakdown of bond between components in the bead

"Bias ply tire" means a pneumatic tire in which the ply cords that extend to the beads are laid at alternate angles substantially less than 90° to the centerline of the tread.

"Carcass" means the tire structure. except tread and sidewall rubber.

"Chunking" means the breaking away of pieces of the tread.

"Cord" means the strands forming the plies in the tire.

"Cord separation" means cords parting away from adjacent rubber compounds.

"Groove" means the space between two adjacent tread ribs.

"Load rating" means the maximum load a tire is rated to carry for a given inflation pressure.

"Maximum permissible inflation pressure" means the maximum cold inflation pressure to which a tire may be inflated.

"Maximum load rating" means the load rating at the maximum permissible inflation pressure for that tire.

"Overall width" means the linear distance between the exteriors of the sidewalls of an inflated tire, including ele-vations due to labeling, decorations, or protective bands or ribs.

"Ply" means a layer of rubber-coated

parallel cords.

"Ply separation" means a parting of rubber compound between adjacent

"Pneumatic tire" means a mechanical device made of rubber, chemicals, fabric and steel or other materials, which, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load.

"Radial ply tire" means a pneumatic tire in which the ply cords which extend to the beads are laid at substantially 90° to the centerline of the tread. "Rim" means a metal support for a

tire or a tire and tube assembly upon which the tire beads are seated.

"Section width" means the linear distance between the exteriors of the sidewalls of an inflated tire, excluding elevations due to labeling, decoration, or protective bands.

"Sidewall" means that portion of a tire between the tread and the bead. "Size factor" means the sum of the section width and the outer diameter of a tire determined on the test rim.

"Test rim" means any rim of the applicable rim width specified in Table I for a particular tire size designation with the rim dimensions shown in the 1967 Tire and Rim Assocation Year Book, the 1967 Tire and Rim Association Supplementary Service Data Book, the Tyre and Wheel Engineering Data Book dated 1965/1966 of the Society of Motor Manufacturers and Traders Limited (SMMT). the Japan Automobile Tire Manufacturers Association, 1966 edition, the Japanese Industrial Standards (JIS-D4202) dated 1966, the European Tire and Rim Technical Organization practices (E.T.R.T.O.), the Deutsche Industrie Norm (DIN) 7818 dated June 1959, or Deutsche Industrie Norm (DIN) 7817 dated August 1962 or an approved equivalent rim.

"Tread" means that portion of a tire that comes into contact with the road. "Tread rib" means a tread section running circumferentially around a tire.

"Tread separation" means pulling away of the tread from the tire carcass.

S4. Requirements.

S4.1 Size and Construction. Each tire shall be designed to fit each rim specified for its size designation in each reference cited in the definition of "test rim" in

S4.2 Performance Requirements. S4.2.1 General. Each tire shall conform to each of the following:

(a) It shall meet the requirements specified in S4.2.2 for its tire size designation, type, and maximum permissible inflation pressure.

(b) Its maximum permissible inflation pressure shall be either 32, 36, or 40 p.s.l.

(c) Its load rating shall be that specifled in Table I for its size designation, type, and each appropriate inflation pressure.

(d) If manufactured on or after August 1, 1968, it shall incorporate a tread wear indicator that will provide a visual indication that the tire has worn to a tread depth of 1/16 inch.

S4.2.2 Test requirements. S4.2.2.1 Test sample. For each test sample use-

(a) One tire for physical dimensions, resistance to bead unseating, and strength, in sequence:

(b) Another tire for tire endurance; and

(c) A third tire for high speed performance.

\$4.2.2.2 Physical Dimensions. Each tire, when measured in accordance with S5.1, shall conform to each of the foilowing:

(a) Its actual section width and overall width shall not exceed by more than 7 percent the section width specified in Table I for its size designation and type;

(b) Its size factor shall be at least as large as that specified in Table I for

its size designation and type. S4.2.2.3 Tubeless tire resistance to bead unseating. When tested in accordance with S5.2, the applied force required to unseat the tire bead at the point of contact shall not be less than:

(a) 1,500 pounds for tires with a designated section width of less than six

(6) inches:

(b) 2,000 pounds for tires with a designated section width of six (6) inches or more but less than eight (8) inches;

(c) 2,500 pounds for tires with a designated section width of eight (8) inches or more, using the section width specified in Table I for the applicable tire size designation and type.

S4.2.2.4 Tire strength. Each tire shall meet the requirements for minimum breaking energy specified in Table II when tested in accordance with S5.3.

S4.2.2.5 Tire endurance. After completion of the laboratory test wheel endurance test specified in S5.4, no tire shall have tread, ply, cord, or bead separation; chunking; or broken cords.

S4.2.2.6 High speed performance. After completion of the laboratory high speed performance test specified in S5.5. no tire shall have tread, ply, cord, or bead separation; chunking; or broken cords,

S4.3 Labeling requirements. Except as provided in S4.3.1, each tire shall be conspicuously labeled on both sidewalls with each of the following permanently molded into or onto the tire:

(a) Size designation.

(b) Maximum permissible inflation pressure.

(c) Maximum load rating.

(d) Identification of manufacturer

(1) Name: or

(2) Brand name and an approved code mark.

(e) Composition of the material used in the ply cord.

(f) Actual number of plies in the sidewall and the actual number of plies in the tread area, if different.

(g) The word "tubeless" or "tube type", as applicable.

(h) The word "radial", if a radial ply tire.

(i) An approved recital (or the symbol specified in Figure 1) that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

S4.3.1 Until August 1, 1968, the labeling requirements of S4.3 may be met by affixing to each tire a label or tag that incorporates all specified information

not molded into or onto the tire. S5. Test procedures.

S5.1 Physical Dimensions. Determine tire physical dimensions under uniform ambient conditions as follows:

(a) Mount the tire on a test rim and inflate it to the applicable pressure specified in Table III.

(b) Condition it at ambient room temperature for at least 24 hours.

(c) Readjust pressure to that specified in (a)

(d) Caliper the section width and overall width at six points approximately equally spaced around the tire circum-

(e) Record the average of these measurements as the section width and over-

all width, respectively.

(f) Determine tire outer diameter by measuring the maximum circumference of the tire and dividing this dimension by pi (3.14)

S5.2 Tubeless tire bead unseating resistance.

S5.2.1 Preparation of tire-wheel assembly. Wash the tire, dry it at the S5.2.1.1

beads, and mount it without lubrication or adhesives on a clean, painted test rim. S5.2.1.2 Inflate it to the applicable

pressure specified in Table III at ambient room temperature. S5.2.1.3 Mount the wheel and tire in

the fixture shown in Figure 2, and force the standard block shown in Figure 3 against the tire sidewall as required by the geometry of the fixture.

S5.2.2 Test procedure. S5.2.2.1 Apply a load

Apply a load through the block to the tire outer sidewall at the distance specified in Figure 2 for the applicable wheel size at a rate of 2 inches per minute, with the load arm substantially parallel to the tire and rim assembly at the time of engagement.

S5.2.2.2 Increase the load until the bead unseats or the applicable value specified in S4.2.2.3 is reached.

S5.2.2.3 Repeat the test at least four

places equally spaced around the tire circumference.

S5.3.1 Preparation of tire. S5.3.1.1 Mount the tire on a test rim and inflate it to the applicable pressure specified in Table III:

S5.3.1.2 Condition it at room temperature for at least 3 hours; and

S5.3.1.3 Readjust its pressure to that specified in S5.3.1.1.

S5.3.2 Test procedure.

S5.3.2.1 Force a 34-inch diameter cylindrical steel plunger with a hemispherical end perpendicularly into the tread rib as near to the centerline as possible, avoiding penetration into the

tread groove, at the rate of 2 inches per minute.

Record the force and pene-85.3.2.2 tration at five test points equally spaced around the circumference of the tire. If the tire fails to break before the plunger is stopped by reaching the rim, record the force and penetration as the rim is reached and use these values in S5.3.2.3.

S5.3.2.3 Compute the breaking energy for each test point by means of the following formula:

$$W = \frac{F \times P}{2}$$

W = Energy, inch-pounds; F=Porce, pounds; and P=Penetration, inches.

S5.3.2.4 Determine the breaking energy value for the tire by computing the average of the five values obtained in accordance with \$5.3.2.3.

S5.4 Tire endurance. S5.4.1 Preparation of

S5.4.1 Preparation of tire. S5.4.1.1 Mount a new tire on a test rim and inflate it to the applicable pressure specified in Table III.

85.4.1.2 Condition the tire assembly to 100±5° F. for at least three hours.

S5.4.1.3 Readjust tire pressure to that specified in S5.4.1.1 immediately before testing.

S5.4.2 Test procedure. S5.4.2.1 Mount the tire and wheel assembly on a test axle and press it against a flat-faced steel test wheel 67.23 inches in diameter and at least as wide as the section width of the tire to be tested or an approved equivalent test wheel, with the applicable test load specified in Table I for the tire's size designation, type, and maximum permissible inflation pressure.

S5.4.2.2 During the test, the air surrounding the test area shall be 100±5° F.

S5.4.2.3 Conduct the test at 50 miles per hour in accordance with the following schedule without interruption:

Maximum permissible	Lo	ad (from tab	ole 1)
inflation pressure (p.s.i.)	For 4 hours	For 6 hours	For 24 hours
32 36 40	column.	28 p.s.i. column. 32 p.s.i. column. 36 p.s.i. column.	32 p.s.l. column. 36 p.s.l. column. 40 p.s.l. column.

S5.5 High speed performance.

S5.5.1 After preparing the tire in accordance with S5.4.1, mount the tire and wheel assembly in accordance with S5.4.2.1, and press it against the test wheel with the load specified in Table I for the tire's size designation and the applicable pressure specified in Column B of the following table:

DOL OHO TOMO HAND CHANGE	
Maximum permissible inflation pressure (p.s.i.)	B Load from Table I
32	24 p.s.l. column,
36	28 p.s.i. column.
40	32 p.s.i. column.

S5.5.2 Break in the tire by running it for 2 hours at 50 m.p.h.

S5.5.3 Allow it to cool to 100 ± 5° F. and readjust the inflation pressure to the applicable pressure specified in Table III.

\$5.5.4 Without readjusting inflation pressure, test at 75 m.p.h. for 30 minutes. 80 m.p.h. for 30 minutes, and (except deep-tread, winter-type tires) 85 m.p.h. for 30 minutes.

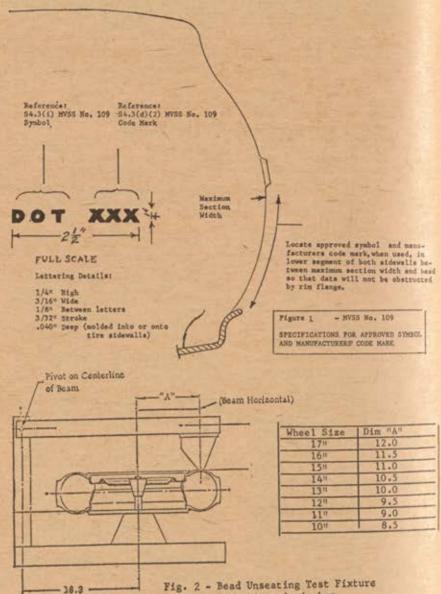
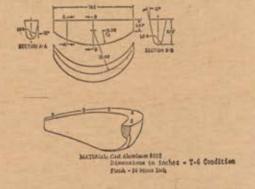


Figure 3. Disgram of Bead Unneating Block



Dimensions in inches

TABLE I-A

THE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR CONVENTIONAL AND LOW SECTION HEIGHT BIAS PLY TIRES

Tire size designation			Maxi	mum tire	loads (p	ounds) s	st various	cold inf	lation pr	essures (p.s.i.)			Test rim width	Minimum size factor	Section width
	16	18	20	22	24	26	25	30	32	34	26	38	40	(inches)	(inches)	(inches)
4.00-13				820	860	900	930	970	1,010	1,040	1,080	1,110	1,140	4.0	29.37	6.00
4.90-13				930	980	1,030	1,070	1,110	1, 150	1,190	1, 230	1,270	1,300	456	30.75	6,60
1.00-13				1,630	1, 880	1,130	1, 180	1, 230	1, 270	1,310	1, 360	1,400	1,440	20	3L.88	7.10
6.00-14				990	1,000	1,080	1,020	1, 060	1, 100 1, 210	1, 130	1, 170	1, 210	1,240	43.4	30, 64	6,10
7.00-14				1, 100	1, 140	1, 190	1, 240	1, 200	1,340	1,380	1, 430	1, 470	1, 530	323	32.88	7.10
7.50-14			20,200	L 230	1, 280	1,340	1,390	1,450	1, 500	1, 550	1,600	1, 650	1,700	534	34.19	7.65
8.00-14				1, 320	1,380	1, 440	1,500	1,500	1, 630	1,670	1,730	1.780	1,830	6	35.37	8.10
8.50-14				1, 420	1,480	1,550	1,610	1,670	1,740	1,790	1, 850	1,010	1, 960	6	35.91	8.35
9.00-14				1, 510	1,580	1,660	1,730	1,790	1,860	1,920	1,990	2, 050	2, 100	636	36.91	8,80
6.45-14.			.860	910	960	1,000	1,040	1,080	1, 120	1, 160	1, 200	1, 240	1,270	436	30.92	6,60
ASS-M			950	1,000	1,050	1, 100	1, H0.	1, 190	1, 230	1, 270	1,310	1, 350	1,390	.5	31,96	7,100
12-14			1,040	1, 100	1, 160	1, 210	1, 260	1,310	1,360	1,400	1, 450	1, 490	1,540	5	32.92	7,30
1.15-14			1, 150	1,210	1,270	1,330	1, 390	1, 440	1,500	1,550	1,600	1,650	1, 690	53/4	24.09	7.75
52-H				1,310	1,380	1, 440	1, 500	1,560	L 620	1,670	1, 730	1,780	1,830	6	35, 11	8, 20
#.M-14				1,430	1, 510	1,580 1,660	1, 640	1,710	1,770	I, 830 I, 939	1,800	1, 950	2,000	- 6	36.06	8,50
3.85-14 3.00-14				I, 640	1,700	1, 780	L S50	1, 930	2,000	2,000	2, 130	2,050	2,100	636	36.82	8.95 9.05
6.00-15				940	980	1, 030	1,070	1, 110	1, 150	1,190	1, 230	1, 270	1, 300	202	31.64	6.10
6.50-15			980	1, 040	1, 080	I 130	1, 180	1, 230	1,270	1,320	1,360	1, 400	1, 440	414	32.75	6.60
4.70-15				1, 190	L 230	1, 200	1,340	1,400	1, 450	1, 560	1,550	1, 550	1,610	415	33.95	7,00
6.85-15			950	1,600	1,050	1, 100	1, 140	1, 190	1, 230	1, 270	1, 320	1, 360	1,390	5	32.48	6,90
7,10-15			1, 190	L 270	1,320	1, 380	1,440	1,500	1,550	1,600	1,660	1, 710	1,760	. 0	34, 89	7,40
7.35-15			1,070	1, 130	1, 180	1,240	1,290	1, 340	1,390	1,440	1, 480	1, 530	1, 570	814	33, 86	7, 50
7.00-15			1,310	1,400	1, 450	1, 520	1,580	1,640	1,710	1,760	1,820	1,880	1,938	7536	36, 05	7,90
7.53-15	******		L 150	1, 210	1, 270	1, 330	1,380	1,440	1,490	1,540	1, 590	1,640	1, 690	753-5	34, 53	7,65
E.00-13				1, 470	1,530	1,600	1,670	1,739	1,800	1,800	1,020	1,980	2,010	- 6	36.84	8,30
E.11-13	******			1,300	1,370	1, 430	1, 490	1, 550	1,610	1,660	1,720	1, 770	1,820	.6	35, 50	8.15
3.20-15			1, 470	1,570	1,630	1,710	1,780	1,850	1,920	1,980	2, 050	2, 110	2,170	0	37.50	8,50
8.45-15	*******		1,340	1, 410	1,480	1, 650	1, 620	1,680	1,740	1,800	1, 860	1, 920	1,970	0	36.37	8,35
8.85-15		-		1,810	1, 880	1,970	2,050	2, 130	1,860 2,210	1,920 2,290	1,980 2,360	2, 940	2,100	634	37, 29	8,80
9.00-15	,,,,,,,,,,		1,400	1,540	1, 620	1,600	1, 760	1, 830	1,900	1,970	2,080	2,000	2, 150	6	37, 45	9,30
9.15-15	10000000	No.	1, 510	1,600	1, 680	1,750	1, 830	1, 900	1,070	2,030	2,100	2, 160	2 230	634	37, 92	9.05
6.00-16	100		1, 075	1, 335	1, 195	1, 250	1,300	1,350	1,400	1, 450	1,500		7,000	4	34, 17	6, 25
6.50-10	1,000	1, 130	1, 215	1, 280	1,345	1, 405	1, 465	1, 525	1,580	1,635	1, 600	1,740	1, 790	434	35.59	6.80
6.29-16		1, 185	1, 240	1,300	1,355	1, 410	1, 465	1,525	1,580	1, 635	1, 000	1,740	1, 795	414	35, 60	7,40
7.00-16			1, 365	1, 440	1, 515	1,585	1,650	1,715	1,780	1,840	1, 900		-	8	37, 02	7, 35
I-M-ID.		andavara.	1, 565	1,650	1,735	1,810	1,890	1,960	2,035	2, 105	2, 175	200000	200.00	634	39.02	\$.40
6.50-17		1,215	1, 275	1, 330	1,390	1, 450	1, 500	1,560	1,620	1,680	1,740	1,795	1,850	5	37, 00	7, 60

Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-B

TIRE LOAD BATINGS, TEST BIMS, MINIMUM SIZE FACTORS AND SECTION WIDTHS FOR "70 BERIES" DIAS PLY TIRES

Tire size designation		5.1	Maxir	num tire	loads (p	otinda) a	t various	cold infl	stion pre	nsores ()	p.s.i.)			Test rim width	Minimum size factor	Section width 3
	16	18	20	22	124	26	128	30	32	-34	36	38	40	(inchm)	(inches)	(Inches)
D70-14 E70-14 G70-14 G70-14 G70-14 G70-14 G70-15 G70-15 E70-15 G70-15 G70-15 L70-15 E70-15			1,250 1,360 1,430 1,070 1,100 1,250 1,360 1,430 1,400 1,500	1,070 1,130 1,220 1,310 1,440 1,500 1,130 1,220 1,310 1,440 1,500 1,500 1,500 1,500 1,600 1,600	1,120 1,190 1,280 1,380 1,510 1,580 1,190 1,280 1,510 1,580 1,510 1,580 1,600 1,600 1,120 1,680	1,170 1,240 1,340 1,440 1,580 1,650 1,240 1,340 1,460 1,080 1,050 1,050 1,750 1,170 1,750	1, 220 1, 300 1, 400 1, 600 1, 650 1, 720 1, 300 1, 400 1, 650 1, 720 1, 770 1, 780 1, 230 1, 830	1,270 1,350 1,450 1,500 1,710 1,790 1,350 1,500 1,710 1,790 1,500 1,270 1,270 1,200	1,320 1,400 1,500 1,620 1,770 1,860 1,400 1,500 1,620 1,770 1,860 1,970 1,970 1,820 1,970	1,360 1,440 1,550 1,680 1,830 1,920 1,440 1,550 1,830 1,920 1,970 2,040 1,360 2,040	1,410 1,400 1,610 1,730 1,890 1,490 1,610 1,730 1,890 1,890 1,080 2,030 2,100 1,410 2,100	1, 450 1, 540 1, 650 1, 780 1, 950 2, 040 1, 650 1, 950 2, 040 1, 950 2, 040 2, 170 1, 450 2, 170	1, 490 1, 580 1, 700 1, 830 2, 010 2, 100 1, 580 1, 700 1, 830 2, 010 2, 100 2, 150 2, 150 2, 230 1, 490 2, 230	516 316 316 316 316 316 316 316 316 316 3	32, 87 33, 45 34, 18 36, 19 36, 19 36, 17 34, 17 36, 98 37, 76 38, 09 37, 76 38, 09 37, 76 38, 09 37, 76 38, 09	7, 85 8, 06 8, 20 8, 75 9, 10 9, 50 8, 10 8, 35 8, 60 8, 95 9, 40 9, 40 9, 60 9, 80

¹ Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-C
TIME LOAD BATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS, FOR BIAS PLY TIMES

		LAMA	LOCAL MA	a controlly a	EGS BURES		out menus	ACTOMO	20,1127 0301	CHANGE WI	274 8000	0.000				
Tire size designation	4.3		Maxin	num tire	loads (pe	ounds) a	t various	cold infl	lation pre	essures (p	(.1.8.4	11-1		Test rim width	Minimum size factor	Section Width
	16	18	20	92	24	26	28	30	32	34	36	35	40	(inches)	(Inches)	(Inche)
"SUPER BALLOON" SIZES				25			-									
5. 20-10	350 385	395 430	440 475	485 515	530 550	555 580	575 605	605	625	650 675	676 700	695	715	3)4	24.84 24.00	5.20 5.90
5. 20-12 5. 20-12	395 460	445 520	495 575	545	595 678	625 715	655 760	685 795	710 825	735 835	760 885	785 915	810 940	316		5.20 5.71
5. 00-12 5. 90-12	460	505	550	595	640	665	700	730	755	785	810 895			30	26,00	5.90
6. 20-12. 5. 20-13.	505 430	555 485	540	655 590	705 640	735 670	775	805 740	835 765	865 795	820	850	875	312	27, 00 27, 72	6.00 5.20 5.71
5.90-13.	495 555	560 625	620 695	675 755	725 815	770 860	810 895	935 935	880 970	1,005	1,040	1,075	1,105	- 4	28.92 29.74	0.98
6.40-13	520 630	580 705	640 785	700 845	750 915	780 945	820 985	850 1,025	1,000	910 1,100	945 1,140	1,175	1,210	436	28, 00 31, 25	6.00
6.70-13 6.90-13	690	775	860 795	935 845	1,000	1,045	1,000	1,135	1,175 1,085	1,220	1,260	1,306	1,340	43/2	32.14 30.00	6.60 7.20
5.20-14.	475 530	835 595	595 660	645 715	695 770	735 815	785 855	825 890	855 920	885 955	915	1,020	975 1,050	334	28.89	5.20 5.71
5.90-14 6.40-14	585 660	660 745	730 825	785 890	850 960	1,000	925	970 1,000	1,005	1,040 1,170	1,080 1,210	1,115	1,145	416	30,76 32,10	A.91 6.42
6.45H14	505	570	800	910 685	960 740	1,000	1, 040	1,080	1, 120	935	965	1,000	1, 030	414 314	30,92 29,75	
5.20-15. 5.60-15. 5.90-16.	555 615	625 695	695 770	755 825	815 890	860 935	895 980	935 1, 015	970	1,065	1, 040	1,075	1, 105	1	30,87 31,77	A.20 A.21 A.81
"LOW SECTION" SIZES	BU	200														
5.00-12	370 415	420 470	465 520	505 560	540 605	565 635	580 565	605 695	625 720	650 745	670 770	605 800	715 820	336	25.62 26.93	3.64 3.34
5.50-12	485	545	605	655	705 585	735 610	785 635	815 660	845 685	875 710	905 735	935 755	965 780	434 334	48, 33	6.14
5.00-13	410 445	400 495	510 550	545	640	670	710	740	765	795	820 1,335	850	875 1,420	1	27.96 32.51	5.99
7.25-13	730 775	825 875	915 970	1,040	1,070	1,110	1,160	1,200 1,270	1,245	1,365	1,410	1, 380	1,500	534	33.72	7.45 5.39
5.50-15L 6.00-15L	805 895	570 665	630 740	675 800	725 860	760 890	800 930	840 970	1,005	1,040	935 1,680	965 1, 115	1,145	110		6.14
6.50-15L 7.00-15L	675 760	755 855	840 950	1,025	970 1,100	1,010	1,000	1, 105 1, 235	1,145	1,185 1,325	1,230	1, 270	1,305 1,400	- 5	32.68 33.85	6,54 7,60
"SUPER LOW SECTION" SIZES			20.00											E E		
145-10/5.95-10 125-12/5.35-12	380 335	430	475 420	515 450	550 485	580 510	605	630 550	650 570	675 590	700 610	725 630	745 650	4 334	24.76 24.68	5.79 5.00
135-12/5.65-12	370 440	420	465 550	505 595	540 640	570 665	500 700	620 730	640 755	665 785	690 810	710 840	730 865	1	25, 53 26, 69	3.79 3.79
145-12/5.95-12 155-12/6.15-12	485 415	545 470	605 520	655	705 595	735 625	775 655	805 685	835 710	865 735	895 760	925 785	950 810	434	27, 36 26, 53	6.15
135-13/5.65-13. 145-13/5.95-13.	470	525	585 640	620 700	670 750	705 780	745 820	770 850	800 880	895 910	855 945	883 975	1,005	435	27, 61 28, 44	K.79 K.18
155-13/6.15-13. 165-13/6.45-13.	518 575	575 645	715	770	825	865 955	905	935	970 1, 085	1, 005 L 120	1,040 1,160	1, 075 1, 200	1, 105	436	29.52 30.34	6,37 7,61
175-13/6.95-13 185-13/7.35-13	635	715 785	795 870	845 945	1,010	1,060	1, 005	1, 160	1, 205	1, 245	1, 290	1, 335	1,370	835	31. 41 27. 54	5.41
135-14/5.65-14	440	495 560	550 630	595 665	715	665 750	700 785	730 815	755 845	785 875	905 905	935	965	-4	28, 54 29, 45	6.79 6.78
155-14/6.15-14	540 395	610 445	675 495	730 535	780 570	825 600	860 625	895 650	9/25 675	960 700	995 720	1, 630 745	1,060	- 434 334	27.69	5.00 1.30
135-15/5, 65-14 145-15/5, 95-15	460 520	520 585	575 650	610 710	660 760	690 790	720 830	750 800	775 890	805 925	835 955	985 985	1,015	1	28.53 29.54	6.18
185-15/6.85-15 175-15/7.15-15	585 705	600 795	730 880	780 955	835	875 1,070	915 -1, 125	950 1, 170	985 1, 215	1,020	1,055	1,000	1, 125	434	82.42	7.01
235-15	1, 150	1, 295	1, 435	1, 545	1,600	1,735	1,825	1, 895	1,965	2,035	2, 110	2, 180	2, 245	- 634	88.26	3.60

⁴ Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-D

The Load Ratings, test rims, minimum size factors and section widths for dash (-) Radial tires

Tire size designation			Maxis	num tire	loads (p	ounds) a	4 various	cold infl	ation pro	esures (ç	(J.E.	-	F	Test rim width	Minimum size factor	Section width
	16	38	20	22	24	26	28	30	32	34	36	38	40	(Inches)	(inches)	(inches)
175-13	493 403 480 570 630 515 605 645 645 646 586		870 970 830 920 1,020 1,100 1,200 1,320	800 940 1,049 900 1,000 1,100 1,130 1,230 1,420 1,230 1,420 1,380 1,440 1,540 1,540 1,550 635 725 765 635 765 765 765 765 765 765 765 765 765 76	920 1, 010 1, 110 900 1, 070 1, 070 1, 150 1, 250 1, 140 1, 240 1, 350 1, 340 1, 350 1, 360 1, 360 365 745 010 200 205 705 705 805 805 805 805 805 805 805 805 805 8	980 1,980 1,180 1,100 1,120 1,200 1,510 1,510 1,510 1,510 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,750 1,	1,040 1,140 1,120 1,100 1,200 1,340 1,400 1,500 1,710 1,500 1,760 025 500 600 715 600 715 600 715 600 715 840 600 715 840 600 600 715 840 600 715 840 840 840 840 840 840 840 840 840 840	1,100 1,210 1,210 1,210 1,140 1,140 1,400 1,400 1,500 1,470 1,500 1,470 1,800 1,470 1,800 640 525 620 670 670 780 670 780 670 780 670 780 670 780 670 780 780 780 780 780 780 780 780 780 7	1,150 1,270 1,400 1,280 1,300 1,500 1,700 1,900 1,700 1,900 2,000 675 535 760 600 740 865 635 775 895 635 775 896 636 1,290	1, 200 1, 330 1, 450 1, 420 1, 420 1, 570 1, 770 1, 570 1, 570 1, 570 1, 570 1, 570 1, 570 1, 570 1, 570 1, 570 1, 570 1, 570 570 570 580 910 910 910 910 910 910 910 910 910 91	1,240 1,290 1,350 1,500 1,600 1,600 1,900 2,000 2,100 2,100 2,100 2,100 685 700 685 7115 845 906 685 1,000 1	1,300 1,450 1,400 1,560 1,720 1,860 2,150 1,720 1,020 2,100 2,100 2,240 2,300 700 575 672 805 730 805 730 805 730 805 730 805 800 730 805 800 730 800 730 800 730 730 800 730 730 730 730 730 730 730 730 730 7	1,350 1,510 1,400 1,470 1,640 1,800 1,940 2,100 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,340 2,450 855 815 905 740 855 855 855 855 855 855 855 855 855 85	434 654 6 5 6 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7	20, 20 31, 42 32, 38 33, 63 33, 53 34, 82 35, 79 36, 44 33, 55 36, 20 36, 20 36, 20 36, 20 36, 20 36, 20 36, 20 36, 20 37, 75 24, 76 24, 76 25, 53 27, 55 27, 55 27, 55 27, 55 27, 55 27, 55 28, 54 27, 55 28, 54 27, 55 28, 54 28, 54 28	6. 40 7, 25 7, 700 7, 300 7, 80 8, 80 8, 60 8, 100 7, 45 7,

¹Artual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-E

THRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR TYPE G-77 BIAS PLY TIRES

Tire size designation	-0		Maxin	mum tire	o loads (p	ounds) a	t various	s cold inf	lation pr	euuzres ()	p.n.1.)	7147	1	Test rim	Minimum size factor	
	16	18	20	22	24	.26	28	30	33	34	36	38	40	(inches)	(inches)	
077-14	Paris.	THE STATE OF	1, 250	1,310	1,380	1,440	1,500	1,560	1,620	1,680	1,770	1,780	1,830	6	35, 04	B. 45

 1 Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-P

THE LOAD RATINGS, RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR DASH (-) RADIAL THRES

Tire size designation			Maxim	num tire	loads (p	ounds) s	t variou	s cold infl	ation pr	essures (p.s.l.)		7 3	Test rim	Minimum	Section
	16	18	20	22	24	26	28	30	32	34	36	38	40	(Inches)	size factor (inches)	width 1 (inches)
5.20-10 5.00-12 5.20-12 5.00-12 5.00-12 5.00-12 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-13 5.00-14 5.00-14 5.00-14 5.00-14 5.00-14 5.00-14 5.00-14 5.00-14 5.00-15 5.00-14 5.00-15 5.00-15 5.00-16 5.0	\$15 \$20 900 \$35 \$75 \$65 \$65 \$675 \$10 \$20 \$10 \$20 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	460 495 545 985 385 385 505 600 085 780 880 900 640 785 900 640 785 900 785 1, 100 720 720 720 720 720 720 720 720 720 7	\$85 518 565 570 665 577 620 623 710 235 805 870 800 950 1,000 670 81,000 670 81,000 670 81,000 805 805 805 805 805 805 805 805 805	510 525 590 645 560 646 650 670 680 900 905 1,000 700 1,150 1,000 1,286 905 905 1,286 905	535 565 615 615 670 675 766 700 980 942 1, 025 1, 025 1, 075 1, 075 1, 250 1, 040 1, 240 1, 250 1, 040 1, 250 1, 040 1, 250 1, 250 1, 040 1, 250 1, 2	560 575 640 630 630 630 695 695 695 815 885 970 900 1, 080 1, 135 4, 115 1, 200 885 1, 120 1, 120 1, 135 1, 120 1, 130 1,	585 598 665 670 770 650 720 725 845 905 1,105 995 1,125 935 1,135 1,35 1,25 1,25 1,24 1,24 1,24 1,24 1,24 1,90	618 618 608 705 800 670 750 750 750 750 750 1,040 1,040 1,145 1,214 1,21	\$35 \$35 \$35 \$715 \$725 \$25 \$25 \$26 \$27 \$27 \$89 \$900 \$89 \$900 \$1,070 \$1,075 \$1,255 \$25 \$25 \$25 \$25 \$25 \$25 \$25	600 660 740 850 750 806 706 706 706 706 706 1,000 1,000 1,215 1,225 1,025 1,215 1,220 1,415 1,235 1,235 1,235 1,235 1,235 1,235 1,235 1,325	685 670 775 775 875 725 820 825 935 935 1, 139 1, 255 1, 220 1, 460 1, 275 1, 375 1, 3	710 690 790 800 905 745 845 850 905 745 1,163 1,296 1,370 1,350 1,350 1,500 1,405 1,310 1,405	735 710 815 825 930 735 870 875 990 1,070 1,200 1,335 1,410 1,380 1,380 1,540 1,540 1,540 1,465 1,465 1,465 1,465	33 3 3 5 6 5 5 6 5 5 6 6 5 5 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 6	28, 84 28, 62 26, 70 26, 70 26, 70 27, 83 20, 64 27, 83 20, 64 31, 26 30, 77 20, 37 20	5, 20 5, 00 5, 50 5, 50 5, 50 5, 57 5, 00 5, 77 6, 00 5, 00

Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-G

tire load batings, test bims, minimum size factors and section widths for "70 series" type "a" radial tires

Tire size designation		31	Maxit	num tire	loads (pe	ounds) a	t various	cold infl	ation pre	essures (3	(i.a.i.)			Test rim width	Minimum size factor	Section width
1 to size designation	16	18	20	22	24	26	28	30	32	34	36	38	40	(inches)	(inches)	(inche)
DR70-14 ER70-14 FR70-14 FR70-14 GR70-14 HR70-14 JR70-14 DR70-14 DR70-15 ER70-15 FR70-15 GR70-15 JR70-15 JR70-15 JR70-15 LR70-15 LR70-15			1,160 1,250 1,300 1,430 1,520 1,010 1,070 1,160 1,250 1,360 1,430 1,440	1,070 1,130 1,220 1,310 1,440 1,500 1,600 1,070 1,130 1,220 1,310 1,440 1,540 1,540 1,600	1, 120 1, 190 1, 280 1, 380 1, 510 1, 580 1, 680 1, 120 1, 190 1, 280 1, 510 1, 580 1, 620 1, 620 1, 680	1, 170 1, 240 1, 340 1, 440 1, 680 1, 650 1, 750 1, 170 1, 240 1, 440 1, 650 1, 650 1, 690 1, 750	1, 220 1, 300 1, 400 1, 500 1, 650 1, 720 1, 830 1, 220 1, 300 1, 400 1, 500 1, 650 1, 770 1, 830	1,270 1,350 1,450 1,560 1,710 1,700 1,270 1,270 1,270 1,450 1,450 1,710 1,710 1,710 1,720 1,830 1,900	1, 320 1, 400 1, 500 1, 620 1, 770 1, 860 1, 970 1, 320 1, 400 1, 620 1, 770 1, 860 1, 900 1, 900 1, 970	1,360 1,440 1,550 1,680 1,830 1,929 2,040 1,300 1,440 1,550 1,680 1,970 2,040	1,410 1,490 1,610 1,730 1,890 1,980 2,100 1,410 1,610 1,730 1,890 1,980 2,030 2,100	1,450 1,540 1,650 1,780 1,950 2,040 2,170 1,450 1,650 1,780 1,950 2,090 2,170	1,490 1,580 1,700 1,830 2,010 2,100 2,230 1,490 1,580 1,700 1,830 2,010 2,100 2,150 2,230	5346 6 6 6546 6546 6546 5356 644 644 644 644	32, 78 33, 42 34, 34 35, 12 36, 96 37, 59 33, 34 33, 91 34, 87 35, 65 36, 83 37, 63 37, 63 38, 66	7, 90 8, 55 8, 55 8, 55 9, 90 7, 71 7, 60 8, 60 9, 90 9, 90 90 9, 90 9,

¹ Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-H

TIRE LOAD BATINGS, TEST BIMS, MIMIMUM SIZE FACTORS, AND SECTION WIDTHS FOR TYPE "R" RADIAL TIRES

Tire size designation		NEST.	Maxin	num tire	loads (p	ounds) a	t various	cold infl	ation pro	essures (p	o.s.(.)			Test rim width	Minimum size factor	Section width #
	16	18	20	22	24	26	28	30	32	34	36	38	40	(inches)	(inches)	fmicroni
165 R18 175 R13 185 R13 195 R13 185 R13 185 R14 165 R14 175 R14 185 R14 196 R14 206 R14 216 R14 215 R14 105 R15 105 R15			1, 430 870 950 1, 070 1, 150 1, 240	820 930 1,030 1,110 820 910 1,100 1,210 1,430 1,430 1,510 1,230 1,230 1,300 1,230 1,210 1,300 1,210 1,300 1,210 1,300 1,210 1,300 1,210 1,300 1,210 1,300 1,210 1,000 1,210 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,5	860 880 1,080 1,750 860 960 1,160 1,270 1,380 1,510 1,560 1,050 1,180 1,270 1,370 1,370 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,270 1,380 1,30 1,30 1,30 1,30 1,30 1,30 1,30 1,3	909 1,030 1,130 1,220 900 1,000 1,100 1,210 1,330 1,600 1,100 1,210 1,330 1,430 1,430 1,550 1,750	930 1,070 1,180 940 1,280 940 1,040 1,260 1,360 1,360 1,360 1,700 1,140 1,280	970 1, 110 1, 230 1, 320 970 1, 080 1, 190 1, 310 1, 460 1, 710 1, 700 1, 190 1, 340 1, 550 1, 190 1, 340 1, 550 1, 190 1, 190 1, 190 1, 190 1, 190 1, 190	1,010 1,150 1,270 1,370 1,010 1,120 1,300 1,500 1,500 1,500 1,700 1,230	1,040 1,190 1,310 1,420 1,040 1,100 1,270 1,570 1,570 1,570 1,270 1,270 1,270 1,270 1,440 1,660 1,800 1,920 2,030	1,080 1,230 1,360 1,470 1,080 1,200 1,310 1,450 1,730 1,890 1,200 1,200 1,320 1,200 1,200 1,200 1,320 1,890 1,200 1,320 1,890 1,200 1,320 1,890 1,200 1,890 1,200 1,890 1,200 1,890 1,200 1,890 1,890 1,900 1,900	1,110 1,270 1,400 1,510 1,110 1,240 1,350 1,550 1,550 1,780 1,950 2,050 1,240 1,390 1,560 1,560 1,390 1,560	1,140 1,300 1,440 1,550 1,140 1,270 1,390 1,560 1,830 2,000 2,100 1,270 1,390 1,570 1,600 1,970 1,970 2,100 2,2100 2,2100 2,230	415 419 5 515 4 4 44 45 5 6 6 6 6 6 6 6 6 6 6 6 6 6	29, 15 30, 30 31, 22, 23, 29, 51 30, 65 31, 62 32, 33, 69 34, 82 35, 70 30, 44 31, 18 31, 18 31, 20 33, 58 34, 22 35, 77 36, 00 36, 00 36, 94 37, 75	6.40 6.72 7.270 6.65 7.00 7.00 8.86 8.84 6.60 6.60 7.60 8.84 6.60 8.7.60 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8

Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE II-MINIMUM BREAKING ENERGY VALUES (INCH-POUNDS)

TABLE ID-A-FOR BIAS PLY TIRES WITH SIZE DESIGNATION OF 0.00 (OR 155 MILLIMETERS) AND ABOVE AND 70 SERIES TIRES

Cord	Maximum permissible inflation pressure		
material	32 p.s.L	36 p.s.l.	40 p.s.i.
Rayon Nylon or polyester.	1,680 inlbs . 2,600 inlbs .	2,475 inlbs . 3,960 inlbs .	3,300 inlbs. 5,200 inlbs.

TABLE 11-B-FOR BIAS FLY TIRES WITH SIZE DESIGNATION BELOW 0.00 INCHES (OR 185 MILLIMETERS)

Cord	Maximum permissible inflation pressure		
material	32 p.s.l.	36 p.s.l.	40 p.s.l.
Rayon Nylon or polyester.	1,000 inlbs. 1,000 inlbs.	1,875 in,-lbs . 2,925 in,-lbs .	2,500 inlbs. 3,900 inlbs.

TABLE II-C-FOR HADIAL PLY TIRES

Size	Maximum permissible inflation pressure		
designation	32 p.s.l.	36 p.s.i.	40 p.s.l
Below 100 milli-	1,950 inlbs_	2,925 inlbs.	3,900 in,-lbs.
meters, 160 milli- meters or above.	2,600 inIba	3,900 inlbs.	5,200 inlbs.

TABLE III

TEST INFLATION PRESSURES

Maximum permissible inflation pressure (in p.s.l.)	32	36	40
for physical dimensions, bead un- seating, tire strength, and tire endurance.	24	28	32
Pressure (in p.s.i.) to be used in test or high speed performance	30	34	. 38

MOTOR VEHICLE SAFETY STANDARD No. 110 TIRE SELECTION AND RIMS-PASSENGER CARS

S1. Purpose and scope. This standard specifies requirements for tire selection to prevent tire overloading.

S2. Application. This standard applies to passenger cars. S3. Definitions.

"Accessory weight" means the com-bined weight (in excess of those standard items which may be replaced) of automatic transmission, power steering. power brakes, power windows, power seats, radio, and heater, to the extent that these items are available as factoryinstalled equipment (whether installed or not)

"Curb weight" means the weight of a motor vehicle with standard equipment including the maximum capacity of fuel, oil, and coolant, and, if so equipped air conditioning and additional weight optional engine.

"Maximum loaded vehicle weight" means the sum of-

(a) Curb weight;

(b) Accessory weight;

(c) Vehicle capacity weight; and (d) Production options weight.

"Normal occupant weight" means 150 pounds times the number of occupants specified in the second column of Table I.

"Occupant distribution" means distribution of occupants in a vehicle as

specified in the third column of Table I.
"Production options weight" means
the combined weight of those installed regular production options weighing over 5 pounds in excess of those standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim.

"Vehicle capacity weight" means the rated cargo and luggage load plus 150 pounds times the vehicles designated seating capacity.

TABLE I

OCCUPANT LOADING AND DISTRIBUTION FOR VEHICLE NORMAL LOAD FOR VARIOUS DESIGNATED SEATING CAPACITIES

Designated scaling capacity, number of occupants	Vehicle normal load, number of occupants	Occupant distribution in a normally loaded vehicle
2 through 4 5 through 10	3	2 in front. 2 in front, 1 in second seat,

"Vehicle maximum load on the tire" means that load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight and dividing by two.

'Vehicle normal load on the tire" means that load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight (distributed in accordance with Table I) and dividing by two.

S4. Requirements

S4.1 General. Passenger Cars shall be equipped with tires that meet the requirements of Motor Vehicle Safety Standard No. 109, "New Pneumatic Tires—Passenger Cars."

S4.2 Tire load limits.

S4.2.1 The vehicle maximum load on the tire shall not be greater than the applicable maximum load rating specified in Table I of Motor Vehicle Safety Standard No. 109 for the tire's size designation and type.

S4.2.2 The vehicle normal load on the tire shall not be greater than the test load used in the high speed performance test specified in S5.5 of Motor Vehicle Safety Standard No. 109 for that tire.

S4.3 Placard, A placard, permanently affixed to the glove compartment door or an equally accessible location, shall display the-

(a) Vehicle capacity weight;

(b) Designated seating capacity (expressed in terms of total number of occupants and in terms of occupants for each seat location);

(c) Vehicle manufacturer's recommended cold tire inflation pressure for maximum loaded vehicle weight and, subject to the limitations of \$4.3.1, for any other manufacturer-specified vehicle loading condition; and

(d) Vehicle manufacturer's recom-

mended tire size designation.

S4.3.1 No inflation pressure other than the maximum permissible inflation pressure may be specified unless-

(a) It is less than the maximum permissible inflation pressure;

(b) The vehicle loading condition for

that pressure is specified; and

(c) The tire load rating from Table I of Motor Vehicle Safety Standard No. 109 for the tire at that pressure is not less than the vehicle load on the tire for that vehicle loading condition.

S4.4 Rims, S4.4.1 Requirements, Each rim shall;

(a) Be constructed to the dimensions of a rim specified for the applicable tire's size designation in a reference cited in the definition of test rim in S3. of Motor Vehicle Safety Standard No. 109.

(b) In the event of rapid loss of inflation pressure with the vehicle traveling in a straight line at a speed of 60 miles per hour, retain the deflated tire until the vehicle can be stopped with a controlled braking application.

[F.R. Doc. 67-13372; Filed, Nov. 15, 1967; 8:45 a.m.]