estimate that all of the Fixed Microwave egotiation periods and the requirement of transportation licensees (excluding broadcast auxiliary f negotiating in good faith), benefits licensees) would qualify as small entities under the SBA definition.

D. Description of Projected Reporting, Recordkeeping, and Other Compliance their incumbent operations to Requirements

54. The *Fifth NPRM* seeks comment on proposals for relocation procedures which new services can be brought to 2160-2175 MHz band, but does not propose service rules. Thus, the item contains no new reporting. recordkeeping, or other compliance requirements.

E. Steps Taken To Minimize Significant wireless services. Economic Impact on Small Entities, and F. Federal Rules That May Duplicate, Significant Alternatives Considered

55. The RFA requires an agency to describe any significant alternatives that 57. None. it has considered in reaching its proposed approach, which may include Ordering Clauses the following four alternatives (among others): (1) The establishment of differing compliance or reporting account the resources available to smalls amended, 47 U.S.C. 151, 154(i) entities; (2) the clarification, consolidation, or simplification of compliance or reporting requirements proposed rule making is adopted. under the rule for small entities; (3) the coverage of the rule, or any part thereof, this Fifth NPRM of proposed rule for small entities.4

56. The proposals contained in the Fifth NPRM are designed to provide spectrum to support the introduction of Governmental Affairs Bureau, Reference new advanced mobile and fixed terrestrial wireless services. This action this Eighth Report and Order and Fifth December 27, 2005. is critical to the continuation of technological advancement, furthers thគ្រcluding the Final Regulatory goals of the Telecommunications Act of Flexibility Analysis and the Initial 1996, and serves the public interest. We egulatory Flexibility Analysis to the the disruption to incumbent operations Business Administration. and the economic impact of this proceeding on incumbent licensees is Federal Communications Commission. minimal. As discussed in Section A, supra, we have proposed to establish rules based on our existing Emerging [FR Doc. 05-21407 Filed 10-25-05; 8:45 am submissions," click "Continue," fill in Technologies relocation procedures to govern the entry of new licensees into the 2150-2160/62 MHz and 2160-2175 MHz bands. An alternative option would be to offer no relocation process, and instead require incumbent licensees to cease use of the band by a date certain and prohibit new licensees from entering the band until that date. We believe that an Emerging Technologiesbased relocation procedure is preferable, as it draws on established and well

known principles (such as time-based

small BRS and FS licensees because the lipeline and Hazardous Materials proposals would require new AWS licensees to pay for the costs to relocate
49 CFR Parts 173 and 180 comparable facilities, and—for small AWS licensees—offers a process by applicable to BRS licensees in the 2150the market expeditiously. Moreover, we hazardous Materials Regulations: 2160/62 MHz band FS licensees in the believe that the provision of additional Aluminum Cylinders Manufactured of spectrum that can be used to support AWS will directly benefit small business entities by providing new opportunities for the provision of innovative new fixed and mobile

Overlap, or Conflict With the Proposed ACTION: Supplemental notice of

301, 303(f), 303(g), 303(r), 307, 316, and fety Administration published a 316, and 332, this Fifth NPRM of

59. Notice is hereby given of the making, and that comment is sought onluminum alloy 6351-T6 and to these proposals.

Information Center, shall send a copy opates: Comments must be received by NPRM of proposed rule making,

Marlene H. Dortch.

Secretary.

Safety Administration

[Docket No. PHMSA-03-14405 (HM-220F)]

RIN 2137-AD78

Aluminum Alloy 6351-T6 Used in SCUBA, SCBA, Carbon Dioxide, and Oxygen Service—Revised Requalification and Use Criteria

AGENCY: Pipeline and Hazardous Materials Safety Administration (PHMSA), DOT.

proposed rulemaking.

SUMMARY: On September 10, 2003, the Research and Special Programs Administration—the predecessor agency 58. Pursuant to Sections 1, 4(i), 7(a), to the Pipeline and Hazardous Materials requirements or timetables that take in \$62 of the Communications Act of 1934 notice of proposed rulemaking (NPRM) account the resources available to smalls amended 47 U.S.C. 151, 154(i) to propose an inspection and testing 157(a), 301, 303(f), 303(g), 303(r), 307 program for early detection of sustained load cracking in certain cylinders manufactured with aluminum alloy 6351-T6. Based on comments received in response to that NPRM, we are use of performance, rather than design, 59. Notice is hereby given of the in response to that NPRM, we are standards; and (4) an exemption from in this lifth NPRM of proposed rule. life for cylinders manufactured with prohibit the use of these cylinders after 60. The Commission's Consumer and the expiration of their maximum service

ADDRESSES: You may submit comments to Docket No. PHMSA-03-14405 (HM-220F) by any of the following methods:

- Federal eRulemaking Portal: Go to are likewise committed to ensuring that he chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the chief Counsel for Advocacy of the Small the live in the liv online instructions for submitting comments.
 - DOT Web site: http://dms.dot.gov. To submit comments on the DOT electronic docket site, click "Comment/ the requested information, click "Continue," enter your comment, then click "Submit."
 - Fax: 202-493-2251.
 - Mail: Docket Management System; U. S. Department of Transportation, 400 Seventh Street, SW., Nassif Building, Room PL-401, Washington, DC 20590-0001.
 - · Hand Delivery: Docket Management System; Room PL-401 on the plaza level of the Nassif Building, 400 Seventh Street, SW., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

²⁴See 5 U.S.C. 603(c).

Instructions: You must include the agency name and docket number PHMSA-03-14405 (HM-220F) or the Regulatory Identification Number (RIN) research, testing and analysis to for this notice at the beginning of your determine whether there is any comment. You should submit two copies of your comments if you submit probability of a cylinder rupture. The them by mail. If you wish to receive confirmation that we received your comments, you must include a selfaddressed stamped post card. Note thatound the probability of cracking all comments received will be posted without change to http://dms.dot.gov including any personal information provided. Please see the Privacy Act section of this document.

FOR FURTHER INFORMATION CONTACT: Mark Toughiry, Office of Hazardous or Kurt C. Eichenlaub, Office of Hazardous Materials Standards, (202) 366-8553; PHMSA, U.S. Department of inconclusive as to why the cylinders Washington, DC 20590-0001.

SUPPLEMENTARY INFORMATION:

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List of Subjects

I. Background

Cylinders made of aluminum alloy 6351-T6 are known to be susceptible textinguishers. sustained load cracking (SLC) in the neck and shoulder area of the cylinder final rule (Docket HM-220D, 67 FR The majority of SLC-related ruptures have occurred in self-contained underwater breathing apparatus (SCUBA), self-contained breathing apparatus (SCBA), and oxygen services equalification, repair, and use of DOT Since 1994, the Pipeline and Hazardouspecification cylinders. On May 8, 2003destructive examination (NDE) Materials Safety Administration (PHMSA, we) has been notified of thirteen suspected SLC ruptures of cylinders manufactured of aluminum alloy 6351-T6. Five of the thirteen ruptures resulted in serious injuries. Data from manufacturers show there are uminum alloy 6351-T6: thousands of cylinders with small, nonleaking cracks, that are regularly detected during a diligent, proper

of cylinders made from the 6351-T6 aluminum alloy have performed correlation between SLC and the data indicated the cylinders would leakcylinders made of aluminum alloy but not rupture when operated at marked service pressure. It was also increases with an increase in stress levels. We performed additional metallurgical analysis on several ruptured cylinders to verify the cause of roperties. failure and failure mode. (See the metallurgical analysis reports at http://DOT specification or exemption hazmat.dot.gov/pubs/reports/cylinder/ cylinders made of aluminum allov analyses revealed SLC caused the cylinder ruptures, but the results were Transportation, 400 Seventh Street SW, abruptly ruptured instead of developing ears for fire extinguishers) in léaks. United States manufacturers discontinued using aluminum alloy not susceptible to SLC. Cylinders T6 prior to July 1990 include seamless for evidence of SLC in the neck and aluminum cylinders marked "DOT 3AL", including those marked with "DOT 3AL" above or near one of the following exemption or special permit numbers: 6498, 7042, 8107, 8364, and performing an eddy current 8422. We estimate approximately six

> of DOT 3AL cylinders currently in service are Luxfer USA; Walter Kidde Co.; Cliff Impact Division of Parker Cylinders. The majority of the cylinders II. Previously Published NPRM are being used in six major services: (1) On September 10, 2003, the Research SCUBA, (2) SCBA, (3) CQ, (4) oxygen, (5) industrial gases, and (6) fire

million U.S. cylinders manufactured

from aluminum alloy 6351-T6 are

currently in use in SCUBA, SCBA,

On August 8, 2002, we published a 51626) amending the requirements of aluminum alloy 6351-T6. The NPRM the Hazardous Materials Regulations (HMR; 49 CFR parts 171-180) applicable to the maintenance,

24653) that made further revisions in (VE), eddy current examination (EE), response to appeals. In the final rule the following amendments pertaining twith a critical-size crack would be DOT specification cylinders made with removed from service. Under the

manufacture of DOT specification cylinders from aluminum alloy 6351-T6performing blind examinations applied

requalification process. Manufacturers because cylinders manufactured with this aluminum alloy have a greater risk of failure than other aluminum cylinders

 Prohibited these cylinders for Hazard Zone A materials effective on October 1, 2002. After that date, 6351-T6 may not be filled and offered for transportation in toxic inhalation hazard service.

 Prohibited the use of cylinders manufactured of aluminum alloy 6351-T6 for gases having pyrophoric

 Required a visual inspection of Materials Technology, (202) 366-4545, 3al_cyls_info.htm). Those metallurgical 6351-T6 for evidence of SLC in the neck and shoulder area.

The HMR require DOT 3AL cylinders to be requalified every five years (twelve accordance with § 180.205. The regualification performed under 6351-T6 in the mid-1990s, replacing it § 180.205 includes a visual inspection with aluminum alloy 6061-T6, which is (internal and external) and a volumetric expansion test. During the visual manufactured of aluminum alloy 6351_inspection, cylinders must be inspected shoulder area. However, we understand that in addition to the visual inspection and volumetric expansion test, many users and requalifiers are currently examination. Approximately 2,000 eddy current devices have been purchased by various technicians in the dive, fire and cylinder requalification industries to examine aluminum cylinders for SLC. Cylinder manufacturers report that a The primary domestic manufacturerslarge number of affected cylinders have been removed from service because of flaws discovered during eddy current examinations.

and Special Programs Administration, the predecessor agency to the PHMSA. published an NPRM proposing to amend HMR requirements on aluminum cylinders manufactured using proposed a standard for early detection of SLC to reduce the risk of a cylinder rupture.

We evaluated the following three nonwe issued a subsequent final rule (68 Fæchniques—internal visual examination and ultrasonic examination (UE)—to and the response to appeals, we addeddetect a critical-size crack. A cylinder direction of PHMSA, Texas Research Removed the authorization for the Institute (TRI) evaluated these three NDE (VE, EE, UE) methods by

by individuals of varying skill levels High Pressure Aluminum Gas Cylinder, comments submitted to the docket, http://hazmat.dot.gov/enforce/forms/ ohmforms.htm). TRI determined that each NDE method was capable of detecting SLC, but detection using VE was limited by external factors, such asusceptibility of cylinders made of the inspector's eye sight, lighting, UE must be applied by a certified in detecting SLC. TRI concluded EE combined with a VE provides the most measures to reduce the risk, (2 accurate and practical examination for immediately removing all cylinders training.

In the NPRM, for cylinders manufactured of aluminum alloy 6351-operational controls (OC) during the T6 used in SCUBA (diving), SCBA (firefighting), and oxygen service, we proposed the following amendments:

 Require cylinders to undergo a combined visual and eddy current examination.

to specify the procedure to conduct the uture incidents. These commenters eddy current examination.

 That suitable safeguards be provided to protect personnel and facilities should a cylinder fail during the filling process.

That only individuals essential to the filling process be allowed in the vicinity of the cylinder during the fillingthe SLC problem will only get worse if more frequently than once every five process.

Although we believe the thirteen have sufficient data to determine whether the SLC-related ruptures above. Therefore, we requested additional information from manufacturers and users who were aware of the rupture of any DOT 3AL cylinder or any other cylinder manufactured from aluminum alloy 6351-T6, whether the incident was domestic or foreign, to submit the information in their comments to this rulemaking. More broadly, we invited commenters to address the issue of whether the new inspection requirements proposed in the NPRM should apply to cylinders manufacturedhese cylinders over time without of aluminum alloy 6351-T6 and used in mposing significant costs on the services other than SCUBA, SCBA, or oxygen.

III. Analysis of Comments

individuals and organizations, including cylinder manufacturers, representatives of the SCUBA and compressed gas industries, and eddy

current test equipment manufacturers, would be prohibited from service when (See the Nondestructive Inspection of In this supplemental notice, we discussified reach the end of a 40-year service Final Report, dated September 2000, atoncerns raised by commenters, and ownether a 40-year period from the date decisions on specific issues.

In response to the known aluminum alloy 6351-T6 to SLC, the position of the crack, and alertness of NPRM discussed three possible options a combined external visual and eddy benefit analysis to address existing technician to produce accurate results safety concerns: (1) Leaving the cylinderAL cylinders manufactured of conducted by a requalifier with minimaservice, or (3) performing a NDE at the be conducted in accordance with CGA time of the cylinder's periodic

cylinder filling process. After careful

Several commenters suggest that option (3) does not provide an adequateoticeable 2-4 years before a level of safety. The commenters state catastrophic event. The commenter that SLC is a manufacturing problem, Add a new Appendix C to Part 180, and no level of testing will prevent assert that the only way to prevent future SLC incidents is to prohibit the use of all aluminum alloy 6351-T6 cylinders. They also assert that the safety benefits outweigh the costs involved in removing these cylinders the cylinders remain in service.

We agree. However, the original reported SLC ruptures under-representeconomic evaluation showed immediatenspections on an annual basis and the extent of the SLC issue, we did not removal of these cylinders from service ecommends reducing the retest period would place an undue economic burden 2.5 years. on the affected industries. Although the We disagree. Research has shown SLC extend beyond those services discussed conomic burden of immediate removals a slow growing crack. A cylinder is not justified, a gradual phase out of manufactured of aluminum alloy 6351-

> the safety issue, and limit the costs associated with removal of these generally replace them with a new one Further, requiring a more frequent after 45-50 years. We revised the of implementing option (3) with the addition of a 40-year service life. The of a 40-year service life to option (3)

> cylinders were manufactured prior to 1990, total removal of these cylinders would be accomplished by the year the addition of a 40-year service life oncapability to conduct eddy current existing DOT 3AL cylinders

manufactured of aluminum alloy 6351 T6. Under this proposal, cylinders

life. We are soliciting comments on of manufacture is an appropriate service A. Prohibited Use of 6351-T6 Cylinders life for these affected cylinders.

B. Combined Visual and Eddy Current Testing

The NPRM proposed the addition of the examiner. TRI also determined that which were evaluated as part of a cost-current examination at each required 5year periodic requalification for DOT in service without taking any additionabluminum alloy 6351-T6. The EE would be performed in accordance with the procedure outlined in Appendix C to detecting SLC. Both EE and VE can be made of aluminum alloy 6351-T6 from Part 180. The visual examination would Pamphlet C-6.1.

requalification and requiring additional Some commenters express concern over the five-year retest period as not frequent enough to detect SLC. One analysis, we selected the third option. commenter states that experience has shown SLC gradually becomes describes an incident in which a GO cylinder leaked through the threads during filling. The leak was a result of SLC. The cracking was not visible at the previous qualification, but in less than a year's time the crack became large enough to leak product. Another commenter asserts that cylinders filled frequently (e.g., SCUBA) are more from service and express concern that susceptible to SLC and should be tested years. The commenter cites the dive industry standard of conducting visual

these cylinders over time will address T6 properly examined using a combination of an external visual and the eddy current is not likely to develop cylinders. Users of DOT 3AL cylinders a critical SLC within a five year period. examination would impose an economic analysis to examine the costsunnecessary burden on the regulated community without significantly increasing safety.

economic analysis showed the addition A few commenters express concern about the qualification requirements for would provide an effective phase-out ofnspectors who conduct the EEs. A large number of the dive and fire industry EEs are conducted by trained technicians affected industries. Since most of these hat have not been specifically approved in accordance with § 107.805 to requalify DOT specification cylinders. Commenters suggest it may be difficult We received comments from several 2030. In this SNPRM we are proposing to locate approved requalifiers with the examinations.

> We recognize it may be difficult to locate an inspector qualified to perform

the EE and specifically approved in accordance with § 107.805. In this SNPRM we are proposing to require the eddy current/visual examinations requirements, and personnel within 3 years from publication of a final rule in the **Federal Register**. Weproposing to require requalifiers to believe the transition period provides adevelop, update, and maintain sufficient amount of time for inspectorexamination procedures applicable to to obtain approval to perform eddy current/visual examinations in accordance with § 107.805. We are current/visual examinations of the affected cylinders.

C. Eddy Current and Visual Examination Method (Part 180, Appendix C)

Several commenters recommend changes to the EE procedures specifiedstated in the NPRM are based on the in proposed Appendix C to Part 180. Some commenters suggest the revising the language to more appropriately reflect the terminology used in the industry today. In addition, The two-thread length is based on a some commenters suggest the procedurar relation between SLC depth and 'by detailing the exact steps to be should look, etc., you are in essence stating that only one manufacturer's equipment is acceptable for the test." equipment is acceptable for the test." years).
These commenters note the operational The regulations do not currently procedures for eddy current equipmentspecify whether the eddy current vary with the manufacturer and test equipment. To avoid confusion and conflicting procedures, these commenters recommend requiring EEsthis issue. To clarify, the eddy current in accordance with the manufacturer's and visual examination may be instructions. Some commenters recommend revising Appendix C to Parhydrostatic examination. 180 to list the elements that must be included in the procedure, and the criteria by which cylinders must be condemned, without stating specific procedural methods. They suggest thismarking described in § 180.205, will avoid limiting the industry to specific procedures that may conflict with current manufacturer recommendations used by industry today. One commenter states it is inappropriate for PHMSA to refer to equipment produced by specific manufacturers when describing the requirements for an appropriate EE and Some commenters express concern suggest we remove any references to that persons performing the equipment produced by a specific manufacturer.

procedures proposed in Part 180, Appendix C may be too specific. Further, it is not our intention to require persons performing these or endorse the use of eddy current

equipment supplied by a particular manufacturer. In this SNPRM, we are revising Part 180, Appendix C to each cylinder made of aluminum alloy provide general eddy current and visua ppendix C for persons who perform qualifications. In addition, we are the test equipment they use to perform. CO₂ Service

eddy current examinations. The NPRM proposed that cylinders year transition period for initial eddy- neck or shoulder area must be rejected would have applied only to cylinders Some commenters recommend revising sed in SCUBA, SCBA, and oxygen the rejection criteria to include any crack in the cylinder, rather than any two-thread crack. These commenters suggest more stringent rejection criteriaxamination.

will provide a higher level of safety. We disagree. The rejection criteria size of the notch in the standard reference ring used to calibrate the eddylinders does not include current equipment. Aluminum cylinder dylinders used in Coservice. The have conducted extensive research to lower pressures than those used in determine the SLC rejection criteria. followed and describing how the probethe neck of the cylinder. Research has conducted an in house the defeat air his defeat ai must be handled, how the defect signashown existing cracks shorter than two prior to the next regualification (five

examination should be conducted before, or after the hydrostatic test. Onere susceptible to SLC. In this SNPRM, commenter requested clarification of performed either before or after the

D. Training

The NPRM proposed that in addition to the periodic requalification and cylinders manufactured of aluminum alloy 6351-T6 used in SCUBA, SCBA, and oxygen services must be subjected ylinders constructed of aluminum to an eddy current and visual examination. The NPRM did not propose additional training requirements for persons performing these examinations.

combination visual and eddy current We agree with the commenters. The training to perform these tests. These the term "vicinity" is not clearly commenters suggest we add a formal defined and could lead to wide examinations.

We agree with the commenters. In this SNPRM, we are proposing additional training requirements in Part 180, 6351-T6 to be initially examined using examination procedures, recordkeepin∉Es combined with visual examinations of DOT 3AL cylinders manufactured of aluminum alloy 6351-T6. We are soliciting comments on the proposed training requirements.

The requalification method proposed in the NPRM for aluminum cylinders soliciting comments on the proposed 3 found to have a two-thread crack in the onstructed of 6351-T6 aluminum alloy service. We did not propose to require cylinders used in Coservice to be subjected to the visual and eddy current

One commenter expresses concern that the proposed revision to the requalfication method for aluminum procedures provided in Appendix C to current equipment. Aluminum cylinder commenter states, "It is true that CO Part 180 is outdated. They recommendmanufacturers and eddy current experts beverage cylinders are typically filled to SCUBA, SCBA and oxygen services. However, the incidence of SLC is great is too specific. One commenter states, growth-rate. The SLC initiates from the color, to exclude a supply that we believe it compromises crown (shoulder) and proceeds toward safety to exclude any cylinders from the threads are not likely to become critical period (2001–2003). The results of the survey showed a significant number of CO₂ cylinders condemned due to SLC.

We agree with commenters that aluminum cylinders used in Coservice we propose to expand the scope of the rulemaking to include Cocylinders. Many users of aluminum alloy cylinders in the beverage service industry are already conducting EEs. We believe including CO cylinders will further enhance transportation safety.

F. Operational Controls for Filling Aluminum Alloy Cylinders

In the NPRM, we proposed to add operational controls during the filling of alloy 6351-T6. The proposed operational controls included a provision requiring the cylinder filler to allow only those individuals essential to the filling process to be in the vicinity of the cylinder during the filling process.

Commenters generally support this examination may not receive adequaterequirement. One commenter suggests function-specific training requirement interpretation. The commenter requests we clarify the area that is intended to be covered by the term "vicinity."

be widely interpreted. The intent of thisduring the filling process. requirement is to protect non-essential Part 180 personnel and innocent bystanders from injury if a cylinder were to rupture Section 180.205 during filling. For purposes of this requirement, vicinity means a location (f)(4) to provide reference to Part 180, Regulatory Policies and Procedures near or around the filling operation that Appendix C for requalification would impose an unreasonable risk of injury to an individual if the cylinder were to rupture during the filling process. The actual distance could vary broadly depending upon the type of safety mechanisms in place and the actual square footage of a particular filling location.

IV. Proposals in This SNPRM

In this SNPRM, we are revising certain amendments originally proposed NDE for cylinders manufactured of in the NPRM, expanding the scope of the rulemaking, and proposing additional requirements for DOT 3AL cylinders manufactured of aluminum alloy 6351-T6. Proposed amendments include:

- Expanded regualification and use requirements to include DOT 3AL cylinders manufactured of aluminum allov 6351-T6 used in COservice.
- manufactured of aluminum alloy 6351 the requalification marking T6 and used in SCBA, SCUBA, oxygen and CO service.
- Additional training requirements examination combined with a visual inspection.
- Modified procedures and recordkeeping requirements for EEs.
- A requirement to perform the initiaAppendix C to Part 180 eddy current examination combined with visual inspection for DOT 3AL cylinders manufactured of aluminum alloy 6351-T6 within three years of publication of a final rule in the **Federal**urrent examination and visual Register.

V. Section-by-Section Review

Part 173

Section 173.301

We are proposing to revise paragraph (d) and add a new paragraph (o) to impose a 40-year service life on cylinders manufactured of aluminum alloy 6351-T6 and used in SCBA, SCUBA, oxygen and Coservice. The by phasing out the use of cylinders susceptible to SLC.

Section 173.302

We are proposing to add a new paragraph (e) to require that operation preamble, the SNPRM proposes to controls must be in place during the filling process for cylinders manufactured of aluminum alloy 6351-manufactured using aluminum alloy

We are proposing to revise paragraphs. Executive Order 12866 and DOT requirements for DOT 3AL cylinders manufactured of aluminum alloy 6351-section 3(f) of Executive Order 12866 T6.

Section 180.209

(a), the entry for the DOT 3AL cylinder Policies and Procedures of the in the "Requalification of Cylinders" table to add a reference to the new paragraph (m). In addition, we propose 11034]. to add a new paragraph (m) to include this rule are minimal. The regulatory aluminum alloy 6351-T6. The NDE will be used to detect SLC in the neck and NDE would be required within three years following publication of a final five years thereafter.

Section 180.213

We are revising paragraph (d) and requirements for aluminum cylinders successfully passing the combined eddwere based on information obtained on whether "VE" is a suitable marking on metallurgical evaluation of the designation for cylinders passing the ruptured cylinders. A regulatory designation for cylinders passing the examination.

We are proposing to amend Appendix procedures, training and recordkeeping in accordance with the principles and C to Part 180 to provide acceptable requirements for performing the eddy inspection of cylinders manufactured of ule would preempt State, local and aluminum alloy 6351-T6.

A. Statutory/Legal Authority for This

This SNPRM is published under 49 U.S.C. 5101 et seq.). Section 5103(b) he Federal hazmat law, 49 U.S.C. of Federal hazmat law authorizes the 40-year service life will promote safety Secretary of Transportation to prescrib preemption provision (49 U.S.C. regulations for the safe transportation, 5125(b)) preempting State, local, and including security, of hazardous material in intrastate, interstate, and foreign commerce. To this end, as discussed in detail earlier in this revise current HMR requirements applicable to aluminum cylinders

We recognize the term vicinity could the risk of injury and property damage to adopt a standard for early detection of SLC to reduce the risk of a cylinder rupture and to establish a service life for cylinders manufactured of aluminum alloy 6351-T6.

> This proposed rule is not considered a significant regulatory action under and, therefore, was not reviewed by the Office of Management and Budget. The We are proposing to amend paragraphroposed rule is not considered a Significant rule under the Regulatory Department of Transportation [44 FR

The compliance costs associated with analysis indicates the increased cost for imposing a 40-year service life, shoulder area of the cylinder. The initial operational controls is small compared to the cost and safety risks of doing rule in the **Federal Register**, and every cost of immediately removing all cylinders from service. The annual benefits of implementing the proposals in this NPRM total \$1,123,969 for • A 40-year service life for cylinders adding a new paragraph (f)(8) to specifyvoided injuries and fatalities compared to an annual cost to the industry of \$669,130. The economic evaluation data from cylinder manufacturers, industrial • Additional training requirements current examination and visual from cylinder manufacturers, industrial for persons performing the eddy current examination and visual for persons performing the eddy current examination and visual from cylinder manufacturers, industrial for persons performing the eddy current examination and visual from cylinder manufacturers, industrial for persons performing the eddy current examination and visual from cylinder manufacturers, industrial for persons performing the eddy current examination. We are soliciting comments are compared to the eddy current examination and visual from cylinder manufacturers, industrial for persons performing the eddy current examination. We are soliciting comments are compared to the eddy current examination and visual from cylinder manufacturers, industrial for persons performing the eddy current examination. analysis is available for review in the docket.

C. Executive Order 13132

This proposed rule has been analyzed briteria contained in Executive Order 13132 ("Federalism"). This proposed Indian tribe requirements but does not adopt any regulation with direct effects VI. Regulatory Analyses and Notices the States, the relationship between the National Government and the States, or the distribution of power and responsibilities among the various levels of government. Therefore, the authority of Federal hazardous material onsultation and funding requirements transportation law (Federal hazmat law of Executive Order 13132 do not apply. 5101-5127, contains an express Indian tribe requirements on certain

covered subjects. Covered subjects are: (1) The designation, description, and classification of hazardous material;

(2) The packing, repacking, handling, labeling, marking, and placarding of hazardous material;

(3) The preparation, execution, and T6. The operational controls will reduce 6351-T6. The purpose of the SNPRM is use of shipping documents related to

hazardous material and requirements related to the number, contents, and placement of those documents;

- (4) The written notification, recording, and reporting of the unintentional release in transportation promote compliance with the of hazardous material; and
- (5) The design, manufacturing, fabricating, marking, maintenance. reconditioning, repairing, or testing of a. Paperwork Reduction Act packaging or container represented, marked, certified, or sold as qualified for use in transporting hazardous material.

5 and would preempt any State, local, or Indian tribe requirements not meeting 2000 This expiration date of AugustWe will publish a notice advising

hazmat law, if the Secretary of Transportation issues a regulation concerning any of the covered subject the Secretary must determine and publish in the Federal Register the effective date of Federal preemption. The effective date may not be earlier than the 90th day following the date of approval. issuance of the final rule and not later PHMSA has determined the effective Federal Register.

D. Executive Order 13175

in accordance with the principles and criteria contained in Executive Order 13175 ("Consultation and Coordination SNPRM. PHMSA estimates the total with Indian Tribal Governments"). Because this proposed rule does not have tribal implications, does not impose substantial direct compliance costs, and is not required by statute, the Total Annual Number of Responders: Unfunded Mandates Reform Act of funding and consultation requirements 139,352 of Executive Order 13175 do not apply

E. Regulatory Flexibility Act. Executive Order 13272, and DOT Regulatory Polices and Procedures

The Regulatory Flexibility Act (5 U.S.C. 601 et seq.) requires an agency toPHMSA specifically requests on small entities unless the agency determines a rule is not expected to have a significant economic impact on maintaining these requirements for a substantial number of small entities, approval under this proposed rule. This rule imposes only minimal new costs of compliance on the regulated industry. Based on the assessment in theoresses section of this rulemaking. regulatory evaluation, I hereby certify that while this rule applies to a substantial number of small entities, there will not be a significant economicrulemaking. Under the Paperwork impact on those small entities. A detailed Regulatory Flexibility analysis required to respond to an information is available for review in the docket.

This proposed rule has been Order 13272 ("Proper Consideration of PHMSA will submit the revised Small Entities in Agency Rulemaking") information collection and and DOT's policies and procedures to recordkeeping requirements to the Regulatory Flexibility Act to ensure potential impacts of draft rules on small Requests for a copy of this entities are properly considered.

PHMSA currently has an approved information collection under OMB Control No. 2137-0022, Testing, This proposed rule covers items 2 and exercision, and Marking Requirements Seventh Street, SW., Washington, DC for Cylinders'' with 168,431 burden Pursuant to § 5125(b)(2) of the Feder proposed rulemaking may result in a ที่odest increase in annual burden and when approved by OMB. costs based on a new information collection requirement. These proposal comments specifically related to the regarding the shipment of aluminum cylinders may result in a new information collection requirement will number 202-395-6974. Under the be submitted to OMB for review and

Section 1320.8(d), Title 5, Code of than two years after the date of issuance provide interested members of the C. Rogulation Identifier Num public and affected agencies an requirements will be one year from the opportunity to comment on information A regulation identifier number (RIN) collection and recordkeeping requests, is assigned to each regulatory action date of publication of a final rule in the This notice identifies a new information listed in the Unified Agenda of Federal collection request PHMSA will submit to OMB for approval based on the This proposed rule has been analyzed requirements in this supplemental proposed rulemaking.

> PHMSA has developed burden estimates to reflect changes in this information collection and recordkeeping burden as proposed would be as follows:

OMB No. 2137-0022:

Total Annual Responses: 153,287. Total Annual Burden Hours: 271,461 local or tribal governments, in the Total Annual Burden Cost: \$2,615,515.

Total One-Time Start-Up Cost: \$964,000.

review regulations to assess their impacomments on the information collection. The National Environmental Policy and recordkeeping burdens associated Act of 1969 (NEPA), as amended (42 with developing, implementing, and Address written comments to the

Dockets Unit as identified in the We must receive your comments prior to the close of comment period identified in the DATES section of this Reduction Act of 1995, no person is collection unless it displays a valid

OMB control number. If these proposed developed in accordance with Executive quirements are adopted in a final rule, Office of Management and Budget for approval.

information collection should be directed to Deborah Boothe or T. Glenn Foster, Office of Hazardous Materials Standards (PHH-11), Pipeline and Hazardous Materials Safety Administration, Room 8430, 400 20590-0001, Telephone (202) 366-8553. the "substantively the same" standard 31, 2008. This supplemental notice of interested parties of the OMB approval for this information collection request

In addition, you may submit information collection burden to the PHMSA Desk Officer, OMB, at fax Paperwork Reduction Act of 1995, no person is required to respond to an information collection unless it displays

G. Regulation Identifier Number (RIN)

Regulations. The Regulatory Information Service Center publishes the Unified Agenda in April and October of each year. The RIN number contained in the heading of this document can be used to cross-reference this action with the Unified Agenda.

H. Unfunded Mandates Reform Act

This proposed rule does not impose unfunded mandates under the 1995. It does not result in costs of \$120.7 million or more to either State, aggregate, or to the private sector, and is the least burdensome alternative that achieves the objective of the rule.

I. Environmental Assessment

U.S.C. 4321-4347), requires Federal agencies to consider the consequences of major federal actions and prepare a detailed statement on actions significantly affecting the quality of the human environment. There are no significant environmental impacts associated with this proposed rule. PHMSA is amending requirements in the HMR pertaining to DOT 3AL aluminum cylinders. The purpose of this rulemaking initiative is to minimize personal injury during the cylinder

filling process and to adopt a standard for early detection of sustained load cracking in order to reduce the risk of a cylinder rupture. Adopting a standard revised and a new paragraph (o) is for early detection of sustained load cracking in order to reduce the risk of a cylinder rupture has no potential for § 173.301 General requirements for environmental damage or contamination.

J. Privacy Act

Anyone is able to search the received into any of our dockets by the combining chemically with the name of the individual submitting the combining chemically with the combining chemical comment (or signing the comment, if submitted on behalf of an association, to endanger the cylinder's serviceability PACKAGINGS review DOT's complete Privacy Act Statement in the **Federal Register** published on April 11, 2000 (Volume 65, Number 70; Pages 19477-78) or yocylinder manufactured of aluminum may visit http://dms.dot.gov.

List of Subjects

49 CFR Part 173

Hazardous materials transportation, Incorporation by reference, Packaging and containers, Radioactive materials, Reporting and recordkeeping requirements, Uranium.

49 CFR Part 180

Hazardous materials transportation, Incorporation by reference, Motor vehicle safety, Packaging and containers, Reporting and recordkeeping the cylinder's contents. A DOT 3AL part. requirements.

propose to amend 49 CFR chapter I, subchapter C as follows:

PART 173—SHIPPERS—GENERAL REQUIREMENTS FOR SHIPMENT AND **PACKAGES**

The authority citation for part 173 gases.

continues to read as follows:

Authority: 49 U.S.C. 5101-5127, 44701; 49(e) DOT 3AL cylinders manufactured CFR 1.45, 1.53.

2. In § 173.301, paragraph (d) is added to read as follows:

shipment of compressed gases in cylinders and spherical vessels.

(d) Gases capable of combining chemically. A filled cylinder may not cylinder's contents or with the

*

(o) DOT 3AL cylinders made of aluminum alloy 6351-T6. A DOT 3AL alloy 6351-T6 and used in selfcontained underwater breathing apparatus (SCUBA), self-contained breathing apparatus (SCBA), oxygen, or CO² services has a 40-year service life § 180.205 General requirements for from the date of manufacture. No persoppualification of cylinders. may fill and offer for transportation or transport a DOT 3AL cylinder made of aluminum alloy 6351-T6 that has been in service longer than forty years. However, a cylinder in transportation ospecification cylinder made of a cylinder filled prior to the expiration aluminum alloy 6351-T6 must be of its authorized service life may be transported for reprocessing or disposate cordance with Appendix C of this

cylinder manufactured of aluminum In consideration of the foregoing, we alloy 6351–T6 may not be filled and with pyrophoric gases.

added to read as follows:

§ 173.302 Filling of cylinders with nonliquefied (permanent) compressed

of 6351-T6 aluminum alloy. Suitable safeguards should be provided to protect personnel and facilities should failure occur while filling cylinders manufactured of aluminum allov 6351-T6 used in self-contained underwater breathing apparatus (SCUBA), selfcontained breathing apparatus (SCBA), oxygen and Carbon dioxide services. The cylinder filler should allow only those individuals essential to the filling

PART 180—CONTINUING cylinder's material of construction, so a QUALIFICATION AND MAINTENANCE

4. The authority citation for part 180 continues to read as follows:

Authority: 49 U.S.C. 5101-5127; 49 CFR 1.53.

5. In § 180.205, paragraph (f)(4) is revised to read as follows:

*

(f) * * *

(4) In addition to other requirements prescribed in this paragraph (f), a inspected for sustained load cracking in

6. In § 180.209, in paragraph (a), in offered for transportation or transportethe "Requalification of Cylinders" table the entry "DOT 3AL" is revised, and a 3. In § 173.302, a new paragraph (e) hew paragraph (m) is added to read as follows:

> § 180.209 Requirements for requalification of specification cylinders.

* * (a) * * *

Table 1.—Requalification of Cylinders 1

Specification under which cylinder was made		made Mi	nimum test pressure (p	sig.) ²	Requalification period (years)	
*	*	*	*	*	*	*
DOT 3AL		5/3 times s	5/3 times service pressure		5 or 12 (see § 180.209(j) and § 180.209(m) ³).	
*	*	*	*	*	*	*

¹ Any cylinder not exceeding 2 inches outside diameter and less than 2 feet in length is excepted from volumetric expansion test.

³ This provision does not apply to aluminum cylinders used in fire extinguisher service.

(m) DOT-3AL cylinders manufactured underwater breathing apparatus of 6351–T6 aluminum alloy. In addition (SCUBA), a self-contained breathing to the periodic regualification and marking described in § 180.205, each Carbon dioxide service must be cylinder manufactured of aluminum

apparatus (SCBA), or in oxygen or

alloy 6351-T6 used as a self-contained load cracking in accordance with the non-destructive examination method described in the following table. Each cylinder with sustained load cracking that has expanded into the neck threads requalified and inspected for sustainedmust be condemned in accordance with

² For cylinders not marked with a service pressure, see § 173.301(e)(1) of this subchapter.

§ 180.205(i). This provision does not apply to aluminum cylinders used in fire extinguisher service or industrial gases in other than Carbon dioxide service.

REQUALIFICATION AND INSPECTION OF DOT-3AL CYLINDERS MADE OF ALUMINUM ALLOY 6351-T6

Requalification requirement	Examination procedure ¹	Sustained load cracking rejection criteria ²	Requalification period (years) ³
Eddy current examination combined with visual inspection.	In accordance with Appendix C of this part. Visual inspetion—In accordance with CGA Pamphlet C–6.1 (IBR; see § 171.7 of this subchapter).	cAny 2-thread crack in the neck or shoulder area.	5

¹The requalifier performing eddy current must be familiar with the eddy current equipment and must standardize (calibrate) the system in accordance with the requirements provided in Appendix C to this part.

²The eddy current must be applied from the inside of the cylinder's neck to detect any sustained load cracking that has expanded into the neck threads.

³ Each cylinder must receive an initial inspection using the eddy current examination combined with visual inspection prior to [DATE THREE YEARS FÓLLOWING THE PUBLICATION DATE OF THE FINAL RULE IN THE Federal Register and every 5 years thereafter.

7. In § 180.213, paragraph (d) paragraph (f)(8) is added to read as follows:

§ 180.213 Requalification markings.

(d) Regualification markings. Each cylinder that has successfully passed requalification must be marked with theerform eddy current examinations. RIN set in a square pattern, between the 2. Visual examinations. Visual month and year of the requalification examinations of the neck and shoulder area of manufacture. date. The first character of the RIN must the cylinder must be conducted before and (iii) Name of test operator performing the square pattern; the second in the upper accordance with CGA pamphlet C-6.1 (IBR; sight; the third in the lawer right; and right; the third in the lower right; and cylinder requalified in September 1998manufactured of aluminum alloy 6351-T6 to threads). and approved by a person who has been inspected must be available at the of the cylinder in accordance with location requirements of the cylinder specification or on a metal plate accordance with paragraph (b) of this artificial notches that will simulate a neck section. An example of the markings prescribed in this paragraph (d) is as

Where:

follows:

"9" is the month of regualification "A123" is the RIN

"98" is the year of requalification, and lengths or more. "X" represents the symbols described in Records of eddy current inspection shall paragraphs (f)(2) through (f)(8) of contain the following information: this section.

(f) * * *

(8) For designation of the eddy current examination combined with a visual inspection, the marking is as

8. In Part 180, Appendix C is added to read as follows:

Appendix C to Part 180—Eddy Currenturs first. These records must be made introductory text is revised and a new Examination With Visual Inspection value for inspection by a representative of **DOT-3AL Cylinders Manufactured of** Department on request. Eddy current Aluminum Alloy 6351-T6

1. Examination Procedure. Each facility that performs eddy current examination with (I) Specification of each standard ref visual inspection must develop, update, and examination maintain a written examination procedure applicable to the test equipment it uses to

appear in the upper left corner of the after the eddy current examination and in

3. Eddy Current Equipment. A reference the fourth in the lower left. Example: A ring and probe for each DOT-3AL cylinder

issued RIN "A123", would be marked examination facility. Eddy current equipment fail).

plainly and permanently into the metalmust be capable of accurately detecting the (vii) Retester identification number. notches on the standard reference ring.

4. Eddy Current Reference Ring. The reference ring must be produced to representsual examinations, and evaluates and permanently secured to the cylinder in be tested. The reference ring must include crack. The size of the artificial notch (depth and length) must have a depth equal/±of the wall thickness of the neck and a length Nondestructive Testing (ASNT) equal to two threads. The standard reference ecommended Practice SNT-TC-1A; or must have a drawing that includes the diameter of the ring, and depth and length afmployer or the eddy current equipment each notch.

5. Rejection Criteria. A cylinder must be rejected if the eddy current examination reveals any crack in the neck of 2 thread

6. Examination equipment records.

(i) Equipment manufacturer, model number and serial number.

(ii) Probe description and unique identification (e.g., serial number, part number, etc.).

cylinder is again requalified, whichever

7. Eddy current examination reporting and Robert A. McGuire, record retention requirements. Daily record ssociate Administration for Hazardous illustrated in paragraph (d) of this of eddy current examinations must be Materials Safety. section, except that the "X" is replaced maintained by the person who performs the [FR Doc. 05–21273 Filed 10–25–05; 8:45 am] regualification until either the expiration of the requalification period or until the

examination records shall contain the following information:

(i) Specification of each standard reference examination.

(ii) DOT specification or exemption number of the cylinder, manufacturer's name or symbol, owner's name or symbol, and date

eddy current examination.

(iv) Date of eddy current examination.

(v) Location and type of defect on the cylinder crown or the threaded neck (e.g., 5

(vi) Acceptance/rejection results (e.g. pass

8. Personnel Qualification Requirements. Each person who performs eddy current and the outer diameter (O.D.) of each cylinder to certifies retest results must satisfy one of the following qualification requirements:

> (i) Is certified to a minimum Level I in accordance with the American Society for

(ii) Has received a certification by the manufacturer that he/she has been trained and tested in the eddy current and visual examination procedures.

9. Training Records. A record of current training must be maintained for each employee who performs eddy current and visual examinations in accordance with § 172.704(d).

Issued in Washington, DC on October 17. 2005, under authority delegated in 49 CFR parts 1.45 and 1.53.

BILLING CODE 4910-60-P