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Reviewed Chief, RDD, WHS
IAW EO 13526, Section 3.5
Date: MAR 21 2016

Nuclear Weapon Transport

- Transport of Radioactive Material With Explosives is Precluded by Regulations.
- To Assure Transport Safety, Weapons Must Not Experience Temperatures or Mechanical Impact Environments Which Can Detonate the High Explosive.
- A Weapon Container May Provide Sufficient Protection to Avoid Critical Temperature and Shock Environments.
- The Technology Base for Weapon Containers Covers a Wide Range of Warhead Parameters.

5 U.S.C. 552

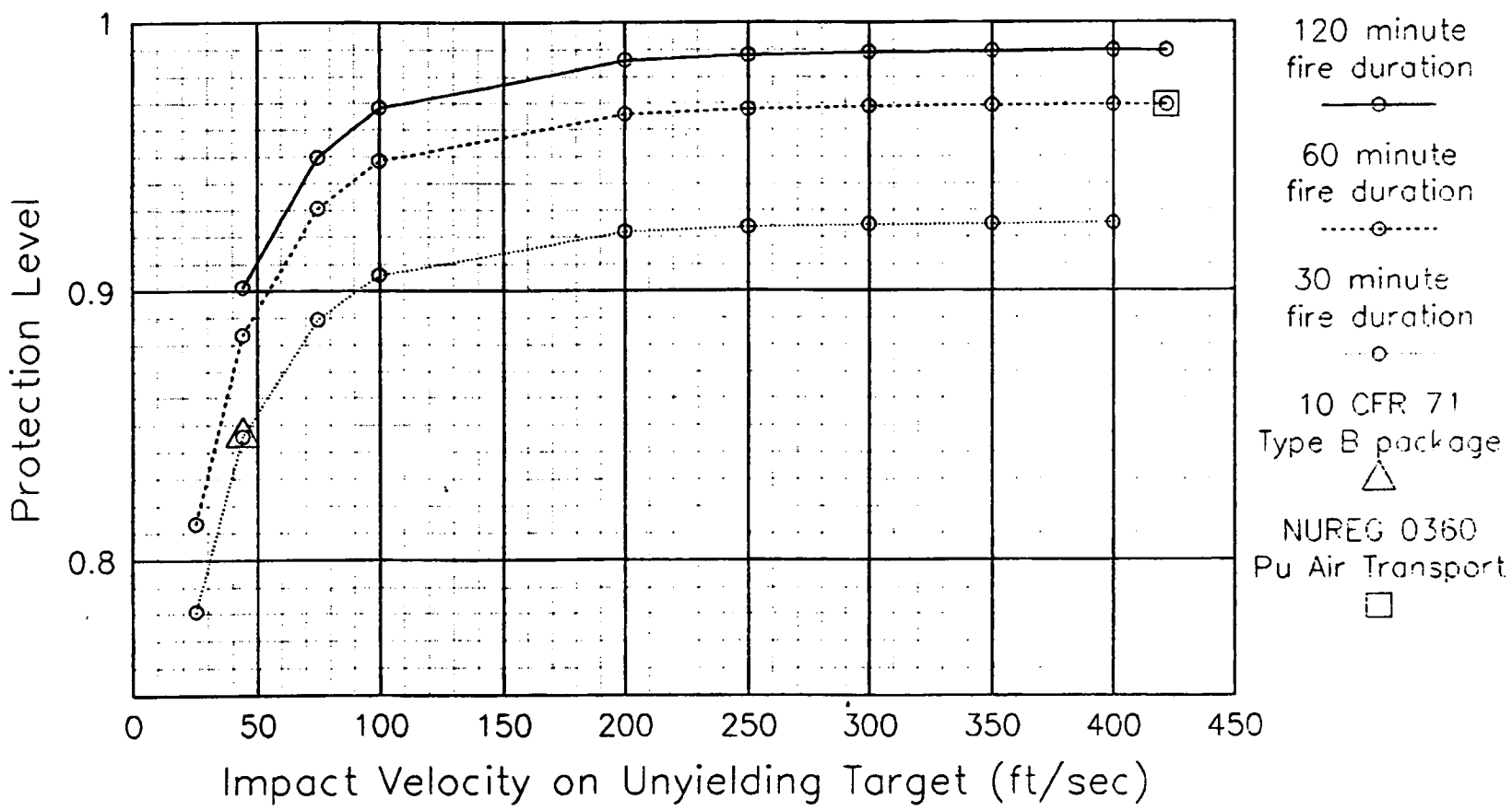
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Chief, RDD, ESD, WHS
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Package Protection Level for Aircraft Accidents



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Reasonable Container Performance Criteria for U.S. Weapons

- **Provide Impact and Thermal Protection to Prevent Release of Radioactive Material from a Weapon Involved In an Accident**
- **Impact Velocity of 100 ft/sec Onto an IAEA Unyielding Target Followed by 60 Minute All Engulfing Fuel Fire**
- **Protection to Avoid Release of Radioactive Material for 99.9 Percent of Ground Transport Accidents and 95 Percent of Air Transport Accidents**

Nuclear Weapon Container Technology

- **Develop a Universal Container or a Family of Similar Containers**
- **Low Cost**
- **Use Proven, Readily Available Technology**
- **Provide Protection for Both Ground and Air Transport**

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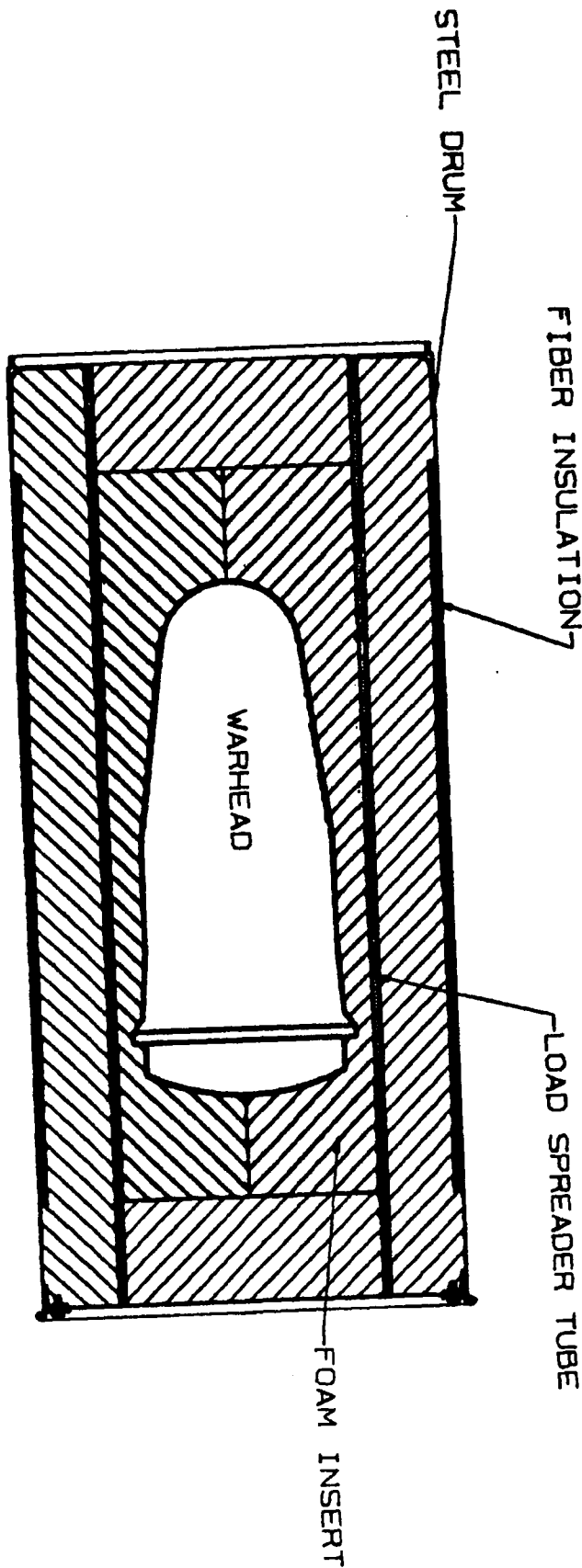
Nuclear Weapon Container Parameters (Length / Diameter - Inches, Weight - Lbs)

Payload Diameter	Payload Length	Payload Weight	Container Diameter	Container Length	Container Weight
14	40	350	24	54	700
17	46	400	28	62	850
20	72	800	30	90	1500

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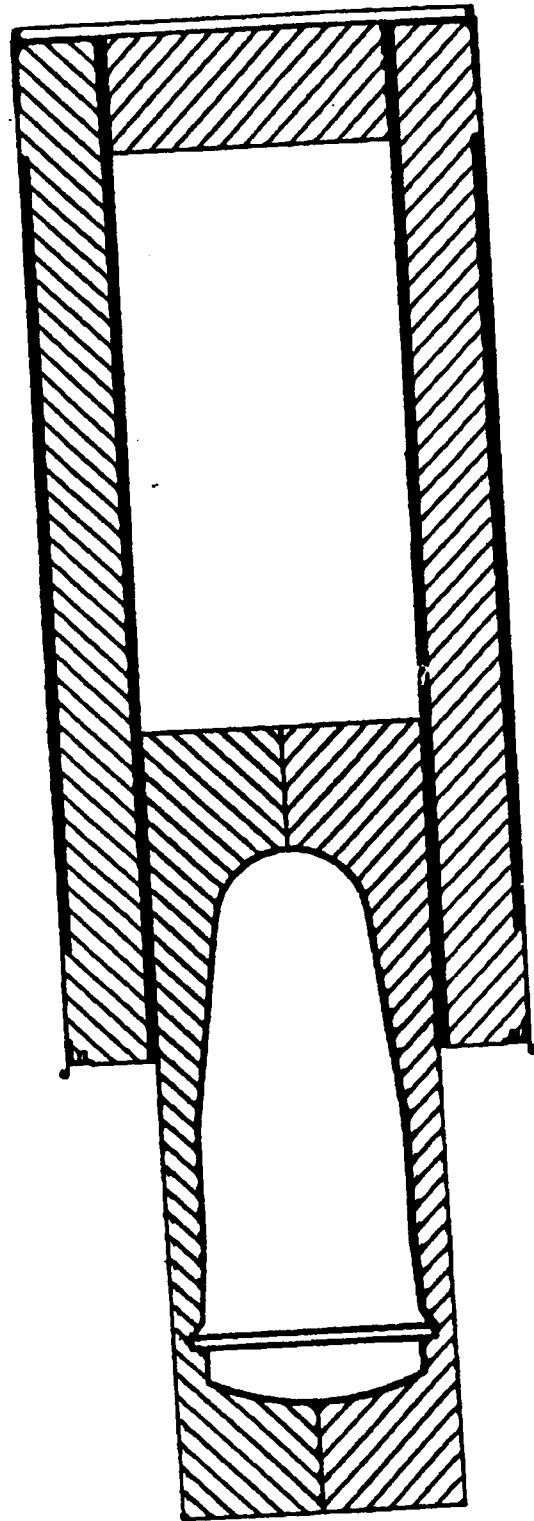
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WEAPON CONTAINER



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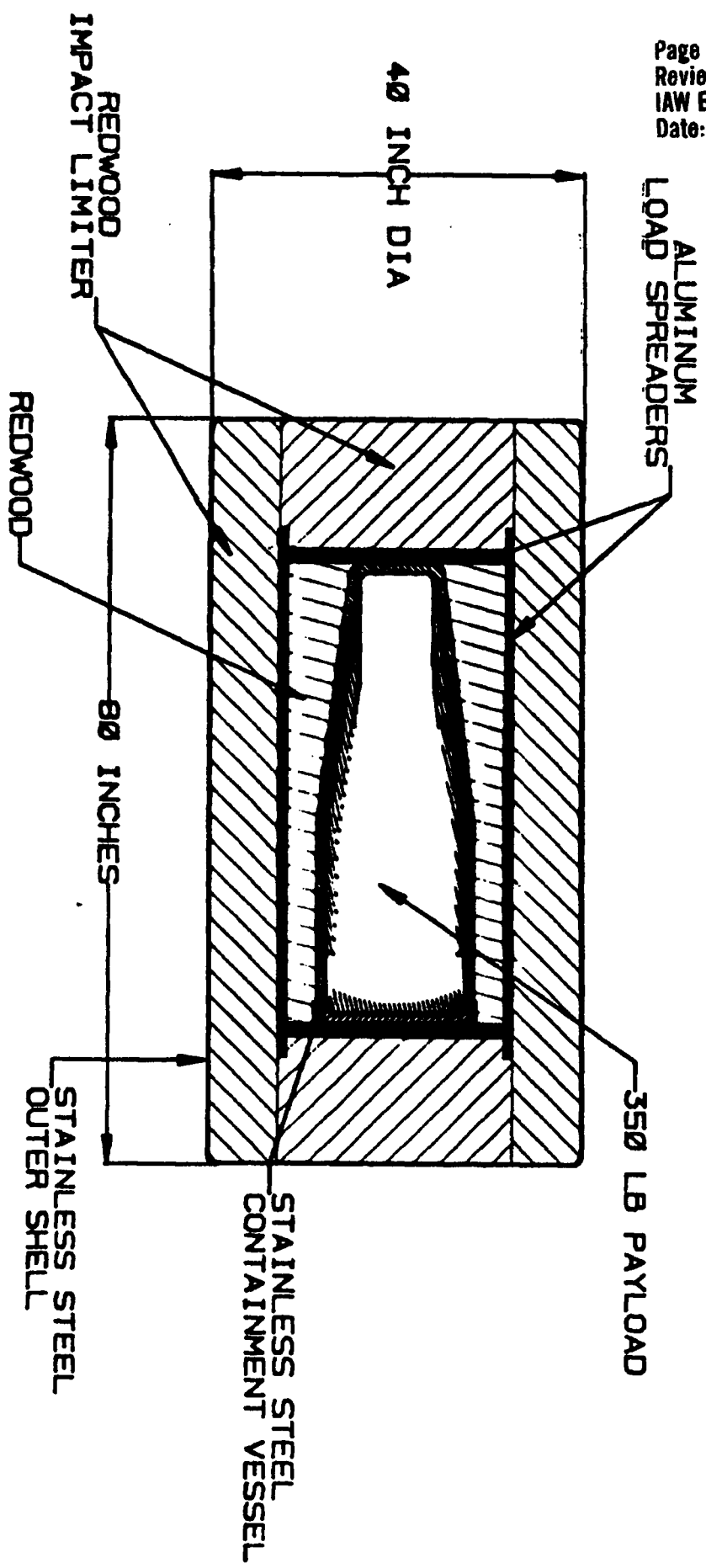
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Parametric Container Design

- **Physical Dimensions and Weight Ranges for Warhead are Essential to Scope Problem.**
- **A Further Evaluation of Container Technology Effectiveness Would Require Temperature and Mechanical Impact Information.**

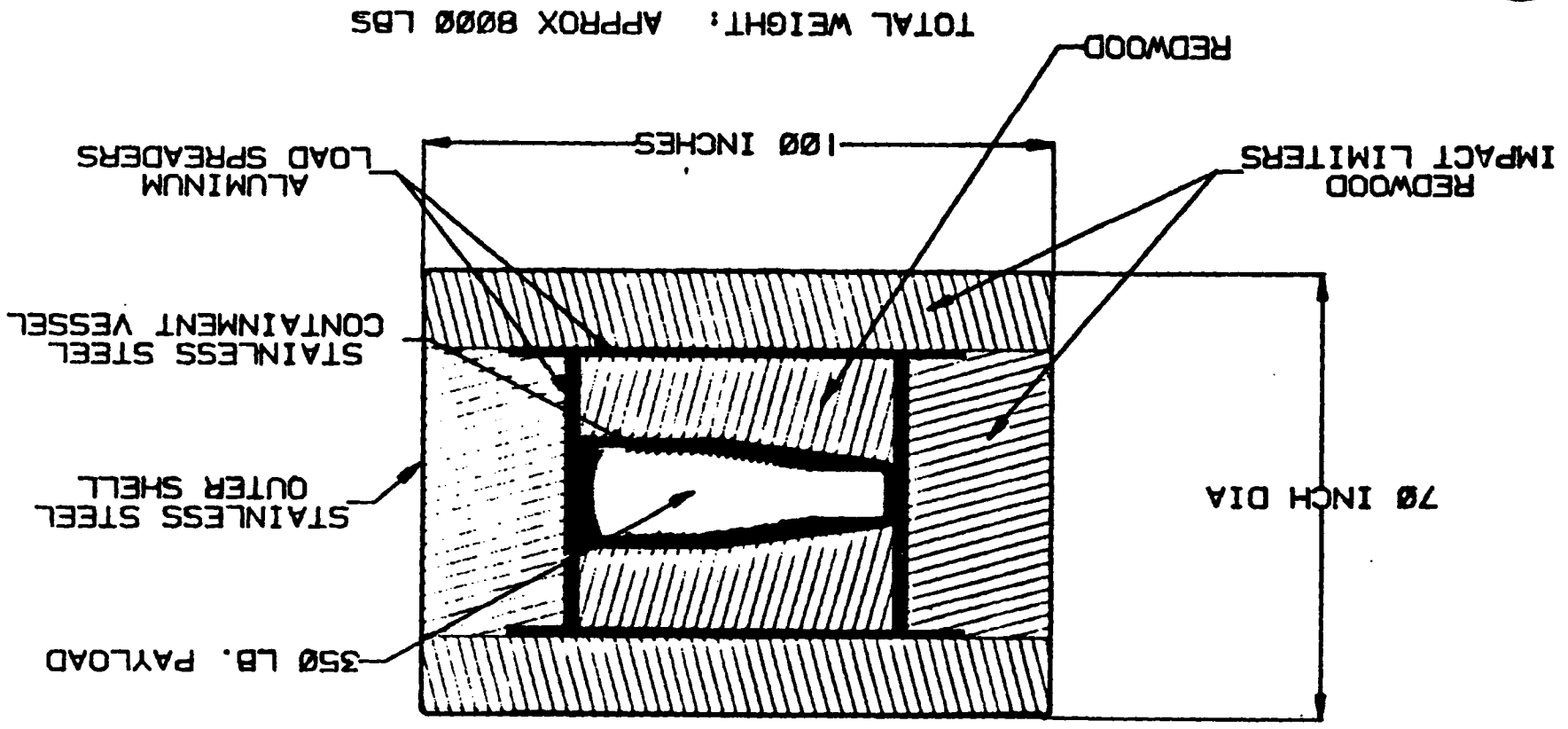
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AIR TRANSPORT PACKAGE CONCEPT FOR 280 FT/SEC IMPACT



TOTAL WEIGHT: APPROX 3000 LBS

AIR TRANSPORT PACKAGE CONCEPT
FOR 422 FT/SEC IMPACT



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Tritium Reservoir Container

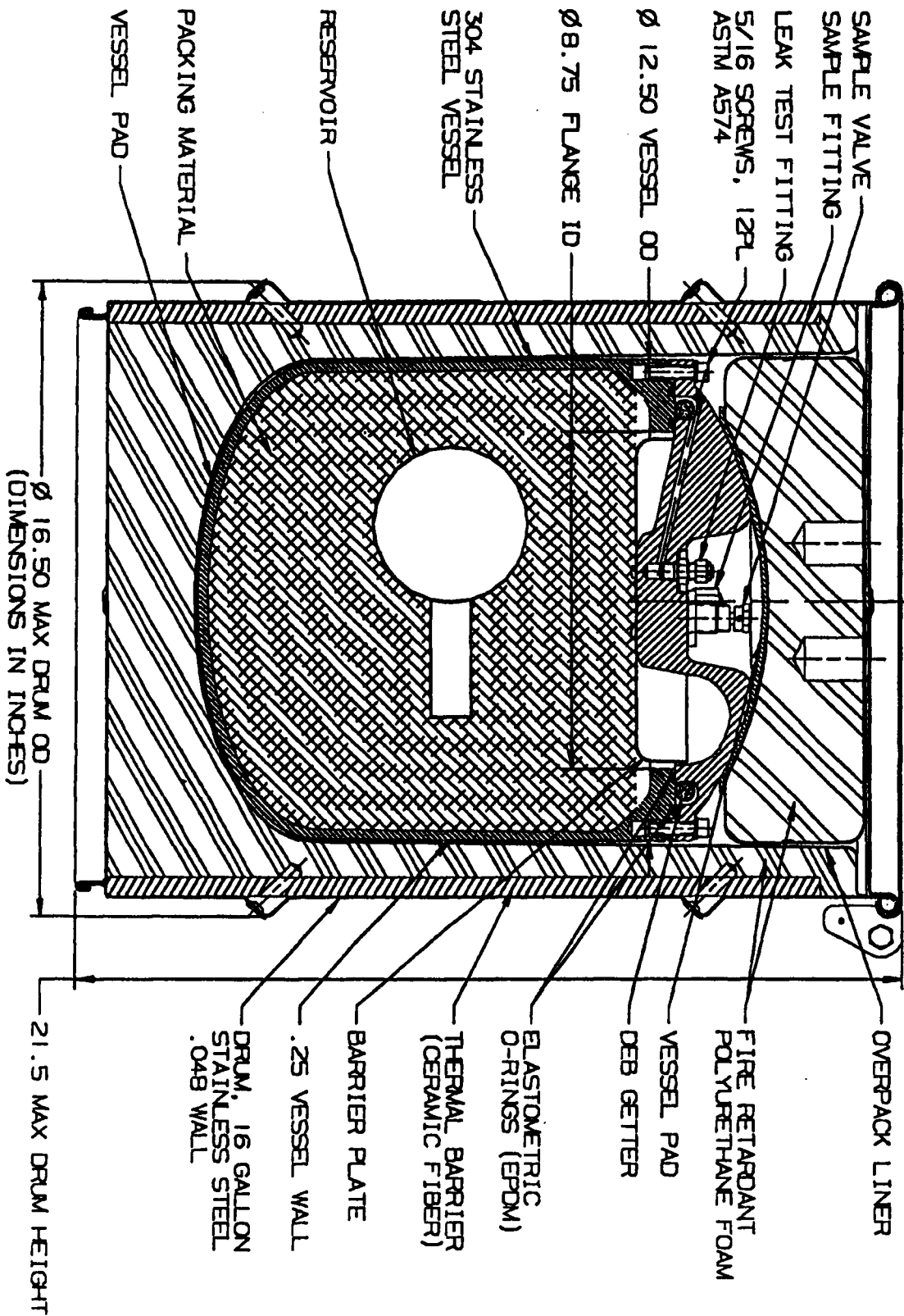
- **Fully Complies with Both U.S. and International Regulations.**
- **If the Tritium Reservoir Leaks Following an Accident, then Containment is Provided by the Transport Container.**

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H1616-2 RESERVOIR CONTAINER

TOTAL WEIGHT: 155 LBS



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