Director, Approvals and Permits Division – Office of Hazardous Materials Safety

Ryan Paquet





U.S. Department of Transportation

Associate Administrator for Hazardous Materials Safety

Dr. Magdy El-Sibaie







Deputy Associate Administrator for Policies and Programs

Rachel A. Meidl, M.S. M.Ed., CHMM





U.S. Department of Transportation Pipeline and Hazardous Materials

Pipeline and Hazardous Materials Safety Administration (PHMSA)



Independent Inspection Agency Meeting

Washington, DC November 4-5, 2015

Presented by : Duane M. Cassidy

Chief, Pressure Vessels, Approvals and Permits Division Office of Hazardous Materials Safety (OHMS)

AMMAR





Points of Discussion

➢ Welcome – General Information

➢ Introductions

► PHMSA's Mission

Scope and Purpose – "Bridging the Gap"





Our Mission

OHMS's mission is to safeguard people, property, and the environment from hazardous materials transportation risks.

















- To discuss the roles and responsibilities of Approved Independent Inspection Agencies (IIA).
- Discuss continued efforts to increase the oversight and inspection on all approval and permit holders.
- Communicate PHMSA's expectations of the IIA's.



U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration

Overall Cylinder Program Goals:

- Risk based approach to determine gaps and mitigate risks by appropriate oversight and use of resources and personnel.
- Work closely with Field Operations to increase domestic and international oversight and compliance through:
- 1. Improved approval process/ letter requirements/compliance
- 2. Continued information sharing and communication with all approval holders, especially our 3rd Party Agencies.
- 3. Consistent application of the HMR and PHMSA's policies to all applicants foreign/domestic.





Continuation of The 3 "C's" ...

➢ Compliance

Consistency

➢ Communication





Update – What have we been doing?

Increased review of fitness on all approved manufacturers/IIA's.

- Continued review of internal processes regarding Tech review/Fitness
- Receipt/Review of semi-annual reports
- Review/Revision of Letter templates
- Continuing efforts to upgrade staffing and IT support







- With regards to your IIA approval letter provisions and our approvals process, what is working and what is not, from the IIA's perspective?
- As you listen to the presentations today, what changes in your process can you make to assist PHMSA in achieving its stated goals?
- Overall, how are we doing and what would you change/why?







U.S. Department of Transportation



PHMSA Your Safety Our Mission

Pipeline and Hazardous Safety Administration **Materials Safety Administration**



Independent Inspection Agency Meeting

Washington, DC November 4-5, 2015

Approval Letter Provisions

Presented by: Isreal Mallard

U.S. Department of Transportation **Pipeline & Hazardous Materials Safety Administration** Office of Hazardous Materials Safety



PHMSA's mission is to safeguard people, property and the environment from hazardous materials transportation risks.







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Discussion Points

- Role of the Independent Inspection Agency
- Approval Letter Provisions







The Role of the IIA

- Independent Verification and Testing
- Oversight of Manufacturing facilities
- Audit of Requalifier facilities
- Audit of Cylinder Manufacturing facilities





The Requirements of the IIA

- Pre-Audits
- Approved Facilities
- Approved Inspection cylinder specifications
- Reporting Requirements





Approval Letter Provisions

- A Copy of the IIA Approval Letter
- Non-compliance Actions
- Training Requirements







• What current approval provisions would you like to see changed?



U.S. Department of Transportation







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Our Mission

OHMS's mission is to safeguard people, property, and the environment hazardous materials transportation risks.

















Discussion Points

>IIA Applications

PHMSA's part of Application Process

>What Happens Next





Discussion Points (Cont.)

>Additional Information Requests

DOT's Oversight on IIA Program

Active Approvals That Are Missing

Semi-Annual Reporting





IIA Application

Separate Application to PHMSA ¥9 CFR 107.705 & 107.803

Pre-Audit Report

≻49 CFR 178.35(4)

Duties of the Inspector
49 CFR 178.35(c)





IIA Application (cont.)

- Chemical Analysis Report
 49 CFR 178.35(2)(i)(ii)
- List of Inspectors
- Training Records
- Stamp of each Inspector
- IIA Stamped Copies of Drawings
 49CFR 107.803(5)(6)





PHMSA's Part of Application Process

> Original Approval Letter of Manufacturer (if a renewal)

> HAZMAT Intelligence Portal (HIP) Report (Initial Fitness)

Evaluation Form

Technical Review

Fitness Determination Memo





What Happens Next?

> Begin processing BOTH applications

If further Fitness Evaluation is required BOTH applications will be sent together to Field Operations-Enforcement

BOTH applications will be approved at same time





Additional Information Requests

≻49 CFR 107.709

> 30 days to respond

Denial After no response

IIA's will now be copied on any/all requests for additional information





DOT's Oversight on IIA Program

Permits & Approvals / Initial Application / Final Approval Determination

> Engineering – Technical Review

Field Operations-Enforcement / Fitness Evaluation



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Active Approvals That Are Missing

Verify All Current Approvals

Provide PHMSA List of Missing Approval Letters

Submit Approval Application





No Expiration Date Approvals

 Verify All Approval Expiration Dates
 Provide List of Approvals Without Expiration Dates to PHMSA

Submit Renewal Application

Renewal of Approvals May Require Fitness Evaluation





Semi-Annual Reporting

Submit Every 6 Months (As Per Approval Letter)

> Information is saved in PHMSA Net

Field Operations - Enforcement and Permits & Approvals use Information





Additional Items of Concern

- Combined Applications for different areas of approval
 - ✓ RIN and Competent Authority (CA), must be two separate applications
- Incomplete Drawings
 - ✓ Missing information on manufacturer drawings
- Missing Pre-Audit Reports
 - ✓ Need to be completed prior to submittal of application for approval



Question's for You

Would you or your manufacturer benefit from a drawing template provided by the Engineering Department that provides the desired information on a manufacturers drawing needed for a technical review/Why or Why not?

How do you feel about a web based Semi-Annual Reporting system?



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Questions?









Pipeline and Hazardous Materials Safety Administration



Pipeline and Hazardous Materials Safety Administration (PHMSA)

Technical Review of Approvals Applications

What do we Need in an Application?

Cover letter explaining the request

Complete design drawing - a fully dimensioned sketch including minimum wall thickness, service and test pressure, cylinder volume and weight, the method of manufacture, heat treatment, material chemistry, guaranteed mechanical properties, batch test requirements, design calculations and marking etc.

Summary sheet for all the test results:

- Batch and Design qualification test results
- Hydraulic pressure test, Hardness test reports etc.
- Dimensional checks and UE examination results/reports
- Include photos of tests where relevant.
- Drawing and test reports should be in English and stamped by the IIA.
- Limit application to one subject/design type (and < 4 designs)</p>





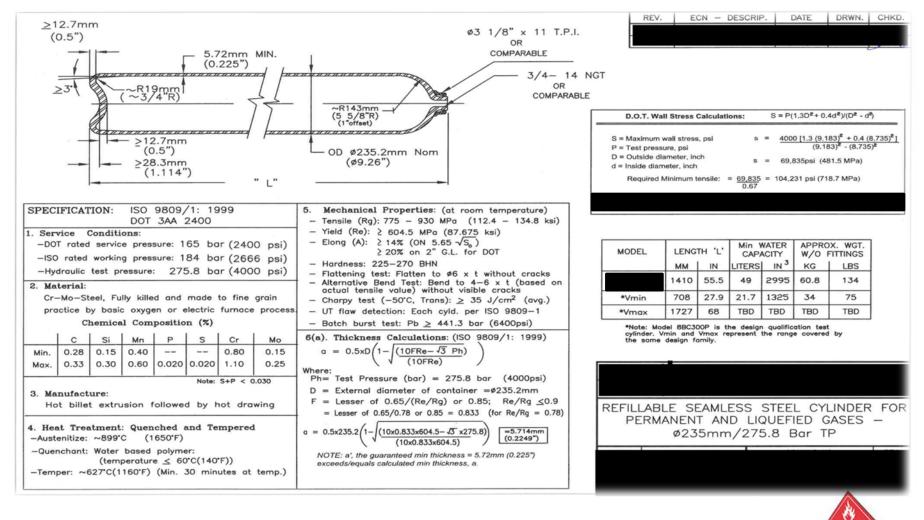
Must include the following:

- Reference to specification to which the design complies.
- A fully dimensioned cylinder drawing covering all dimensions as required in the reference standard. Marking drawing is also required.
- Service and Test pressures, Min volume and Empty cylinder weight
- > Method of manufacture, Material chemistry, Heat treatment
- Mechanical and Physical properties (Tensile, Bend/Flattening, Charpy and Hardness test requirements etc.)
- Performance tests required on batch basis (Burst, Cycle, Flaw tests etc.)
- Sidewall thickness calculations as required in the specification or standard.
- Proper title for the drawing clearly indicating the scope and any limitations applicable to the design.





Sample Design Drawing



AMMABI

U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration

Sample Summary Sheet for Approvals Application

Item	Test	Cylds required	ISO 9809-1: 2010 sec/clause refr.	Requirement Repo		Results	
1	Cylinder Drawing	N/A	7.9	Fully dimensioned drawing with material specification	Specify Page no	Dwg #	
2	Cylinder Stamping Drawing	N/A	13	Document	"	Dwg #	
3	Manufacturer's Declaration of Conformity	N/A	N/A	Document	**	Complete	
4	Material chemistry check	N/A	6.2	Meet requirements of clause 6.2. Note S, P and S+P do not exceed clause 6.2.2 limits.	**	ок	
5	Heat Treat Summary Sheet	Per A.I	6.4		**	ок	
6	Thickness Report / Hardness Test	All	11.3	Specify hardness range BHN.	"	PASS	
7	UT flaw	All	8.4, Annex B	Per ISO 9809-1, Annex B	"	PASS	
8	Out-of-roundness	Per A.I.	8.5	(@top, mid, bot secs.) <2% of actual dia.	**	List values obtained?	
9	Mean diameter (pi-tape)	Per A.I.	8.6	(< ±1% of nom dia.) Specify min / max values	"	PASS: Values?	
10	Straightness (banana)	Per A.I.	8.7	Max 0.01xL	**	List values obtained	
11	Verticality (lean)	Per A.I.	8.8	Max 0.003xL	**	List values obtained	
12	Thread Inspection	Per A.I.	8.9		"	PASS	
13	Hydrotest	All	11.2	Test pressure: ? Perm expn < 10% of TE	**	PASS	
14	Mechanical tests	2			"	PASS	
14a	Tensile	**	10.2	Rg, Re and %E values guaranteed on the drawing (ISO-Prop rectangular bar)	"	List values obtained in tests.	
14b	Charpy (-50 decg C, Trans)	"	10.4	Avg of 3 tests>35J/cm^2 w/ no single <28 (test to be done per ISO 148)	"	List actual values obtained	
14c	Thickness check for sidewall, base and head (on cylds taken for mechanical tests)	2 (ISO mech test cylds.)	9.2.2(a), hash 2	Meet design drawing	"	List values obtained	
14d	Bend Test	"	10.3	to 5 x tnom w/o cracks	"		
15	Base Check (on Cycle Test cylds.)	2	9.2.3	within 15% of design min	"	Bottoms within 15% of design	
16	Hydraulic Burst Test Summary	2	10.1.2 & 10.5	Pb & Py to meet requirement of ISO 9809/1	"	List values obtained in the tests	
17	Cycle Test Summary	3	9.2.2	12,000 cycles min. After cycle test, section bases and measure base thickness .	"	Show that base thickness in within 15% of tb on drawing.	
18	Neck ring Test	Per A.I	When fitted(7.6)	Specify axial and torque load required values	"	Actual values obtained	
19	Internal/external surface check	Per A.I	8.3 &9.2.19a) &Annex-A	Free of injurious defects	"	PASS	

U.S. Department of Transportation Pipeline and Hazardous Materials

Safety Administration













Independent Inspection Agency Meeting

Washington, DC November 4-5, 2015

Presented by :

Diane Jones Angie Wang Pressure Vessels, Approvals and Permits Division Office of Hazardous Materials Safety (OHMS)



PHMSA's Mission

To safeguard people, property, and the environment from hazardous materials transportation risks.













U.S. Department of Transportation Pipeline and Hazardous Materials

Safety Administration

Discussion Points

CFR Regulations Approvals Process Requalifiers (RIN) Repair / Rebuild (K#) Diane Jones Diane Jones

Complete Inspection Report DOT Special Permit Cylinders Current Projects Angie Wang Angie Wang Angie Wang



U.S. Department of Transportation



49 CFR Overview

49 CFR Part 107 Subpart H

General Application Procedures

- Filing an application for approval
- Processing an application for approval





49 CFR Overview How to submit an application

49 CFR Part 107.705

Attention: Approvals Division, PHH-33

a) <u>US Postal</u>	b) <u>Faxing</u>	c) <u>Email</u>	d) <u>Webpage</u>
Department of Transportation	202-366-3753	<u>Approvals@dot.gov</u>	phmsa.dot.gov
East Building	or		
1200 New Jersey Avenue	202-366-3308		
Washington, DC 20590			





49 CFR Overview

IIA Approvals	49 CFR 107.803
Requirements of an Independent Inspector	49 CFR 178.35
Designation of an US Agent	49 CFR 105.40
General requirements for requalification cylinder	49 CFR 180.205
Record keeping requirements	49 CFR 180.215
Training requirements	49 CFR 172.704



U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration

49 CFR Overview www.phmsa/dot/ecfr.gov

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Approvals Process Approval Types

> RIN Approvals (Retester Identification Number)

Hydrostatic Acetylene Ultrasonic Acoustic

Mobile Unit

Competent Authority Approval (CA)

K Numbers (Repair and/or Rebuild)

49 CFR 107.805 49 CFR 180.211





Safety Administration

49CFR 107.805

General Application Requirements

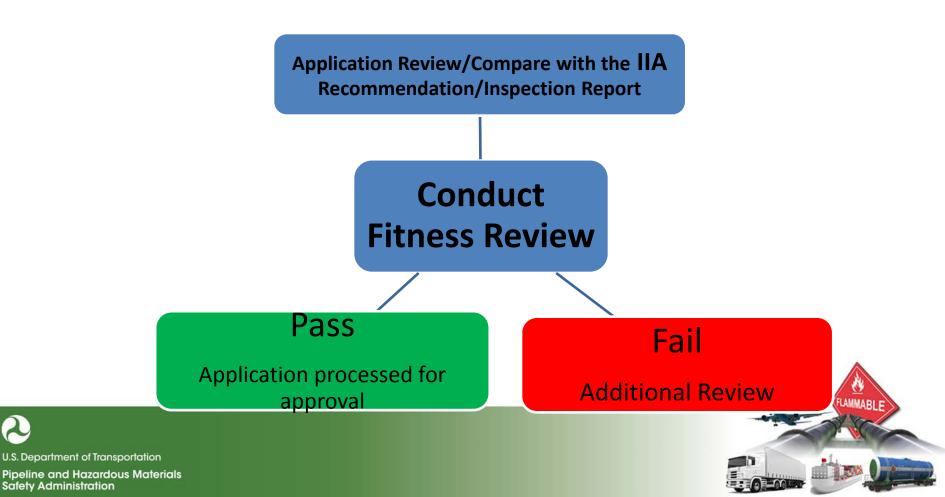
49 CFR 107.705

- A request is required for all applications being submitted PHMSA
- Identify the section of the 49 CFR under which the approval is being submitted
- Describe the activity for which the approval is required
- IIA Report/Recommendation Letter



U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration

Processing Requalifiers (RINs) & Repair / Rebuild (K-Numbers)





Additional Review:

First Level Review Second Level Review Chief of Pressure Vessels Enforcement/Field Operations Division

This level of review determines whether an applicant needs an onsite inspection by the Enforcement/Field Operations Division before determining a final decision from the Pressure Vessels Division.



U.S. Department of Transportation Pipeline and Hazardous Materials

Safety Administration

What is Requalification of Special Permit Cylinders

- Definition:
 - A Special Permit sets forth alternative requirements, or variances, to the requirements in the HMR.



U.S. Department of Transportation

How to Search a Special Permit Cylinders

- Webpage:
 - <u>http://www.phmsa.dot.gov/hazmat/regs/sp-</u>

a/special-permits/search

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- What are we looking from IIA report:
 - Correct Special Permit List in the IIA report
 - Non expired Special Permit list





Complete Application

- IIA Report
 - Recommendation Letter
 - Equivalent level of safety to what is required under the regulations
 - Special Permit List (if any)
 - Correct Application Form





Current Projects

- M-V Portal
 - <u>https://portal.phmsa.dot.gov/PHMSAPortal2/</u>
- Bulletin Board
 - <u>http://vbulletin.phmsa.dot.gov/forumdisplay.php?f=1</u>
 <u>68</u>
- Reciprocity with Canada
 - Regulatory Cooperation Council (RCC)
- Cylinder Requalification Locator





Questions or Comments

- Information Center:
 - 1-800-HMR-4922
 202-366-4488
 phmsa.hm-infocenter@dot.gov
- Pressure Vessel and Cylinder
 - 202-366-4512
 - <u>Webpage</u>: <u>http://www.phmsa.dot.gov/feedback/approvals-</u> <u>questions-form</u>





Safety Administration

Questions or Comments

PHMSA Pipeline and Hazardo Safety Administration	us Materials			epartment of Transportation
About PHMSA	Pipeline Safety	Hazardous Materials Safety	Enter Search Term(s):	Search
Approval Feedback/Qi	uestions/Concern	S		
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U.S. Department of Transportation Pipeline and Hazardous Materials

Safety Administration





- When conducting pre-approval audits of Cylinder Requalifiers, are you verifying that the company meets the requirements of each DOT Special Permit for which you are giving a recommendation for approval?
- Are you verifying that the DOT Special Permits are still active prior to adding them to your list of recommended cylinders to be requalified?









U.S. Department of Transportation

FIELD OPERATIONS ENFORCEMENT PHH-40

Kimberly Yoder

Acting Cylinder Program Manager Office of Hazardous Materials Safety Field Operations

http://phmsa.dot.gov/hazmat

November 2015







PHMSA's mission is to protect people, property and the environment from the risks of hazardous materials transportation.















Enforcement Operational Activities

- Promotes the safe and secure shipment of hazardous materials in transportation
- Activities Include
 - Compliance inspections
 - Incident investigations
 - Fitness determinations
 - Outreach and training activities
 - Information and intelligence gathering





Hazmat Shipments in the U.S.

Over 1,000,000 Shipments Daily

2.2 Billion Tons Shipped Annually by All Modes

Hazardous Materials Support \$1.5 Trillion of US Economy Annually







U.S. Department of Transportation

Who Does PHMSA Regulate?

- Shippers/Carriers (HAZMAT)
 - Class 1-9
 - Waste
- Freight Forwarders
- Third-Party Labs
- Special Permit Holders
- INDEPENDENT INSPECTION AGENCIES
- CYLINDER REQUALIFIERS
- DESIGNATED APPROVAL AGENCIES

- Aerosol Fillers/Shippers
- Agricultural Industry
 - Nurse Tanks
- Packaging Manufacturers
 - Tanks, Drums, IBCs, CYLINDERS (PRESSURE VESSELS), Boxes, etc...
- Packaging Self-Certifiers
- Distributors/Brokers
- High Hazard Entities





Determination of/Scheduling On-Site

INTERNA	TIONAL MAN	UFACTURER/IIA/DAA RIS	K MATRIX August	14, 2015	
APPLICATION TYPE	CYLINDER SERVICE	ENFORCEMENT HISTORY	LENGTH OF TIME SINCE LAST INSPECTED	PRIORITY RISK CODE	ONSITE PRIOR TO APPROVAL
NEW MFG/REBUILDERS	All services	N/A	N/A	1	x
NEW IIA	All services	N/A	N/A	1	Х
IIA CHANGE	All services	N/A	N/A	1	X
NEW DAA	All services	N/A	N/A	**	
RENEWAL MFG,DAAs, REBUILDERS	All services	Incident(s) reported, or other reports of possible violations received**	N/A	1	×
		PHMSA inspected,	0-2 years	4	N/A
		findings/violations/QCs	2-5 years	3	
		noted.	5-7 years 2	2	
RENEWAL MFG		PHMSA inspected, no	0-2 years	5	
(and their	All Services	findings/violations/QCs	2-5 years	4	
approved IIA),		noted.	5-7 years	3	
DAAs, REBUILDERS, etc.		No recent enforcement history	> 7 years or never	1	



U.S. Department of Transportation Pipeline and Hazardous Materials

Safety Administration

Inspections Trends

Common Issues Identified

- Administrative
 - Failure to maintain training records
 - Manufacturer's report errors
 - Failure to maintain approvals (to include updating, etc.)
 - Incomplete applications
- Technical
 - Failure to train hazmat employees
 - Inspector training/processes not in place
 - Failure to perform chemical analysis (International)
 - Failure to witness/verify as required







The Inspection Process

Introduction

General Information/Overview

Items Reviewed

- What are we looking for?
- Manufacturing processes, test reports, training records, technical drawings, SOPs, quality assurance manuals, calibration certificates, approvals, sales orders, etc.

Evidence Gathering

- Interviews, documentation, photographs, statements, etc.
- Obtaining Samples for Independent Verification Testing
- Closing the Inspection
 - Cylinder manufacturing checklist, Cylinder requalification checklist, Exit Briefing, etc.





The Inspection Process – Items Reviewed

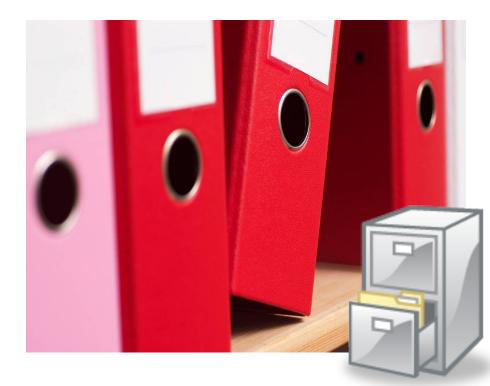
- Processes and Procedures
- Testing Equipment
- Manufacturing Equipment
- Travelers
- Raw Material Verifications
- Chemical Analysis
- Witnessing/Verification points (Travelers)
- Training
- Approvals
- Manufacturer's test reports
- Application(s)
- Technical Drawings





The Inspection Process – Evidence Gathering (Documentation)

- Certifications (Test Reports)
- Production Records (Travelers)
- Training Records
- Invoices/Sales Records
- Calibration certifications
- Test Records
- Approvals
- Quality manuals/SOPs
- Drawings







The Inspection Process – Closing the Inspection

Exit Briefing

- A "Field Report" not a "Final Report"
- Used to summarize the inspection and notate "probable violations"
- Reviewed with company official
- Request corrective action
- Refer to penalty guidelines
- Obtain signature(s) and provide copies





Investigator Feedback

Based on Experience

• Other Entity Comparisons (names omitted)

Geared Toward

- Safety
- Overall Compliance
- Adherence to regulation/approva
- Systemic Improvements
- Streamlining Operations



AMMAR



The Inspection Process – Next Steps

- Investigator returns to regional office to prepare inspection report
 - Awaits independent inspection verification testing results
 - Reviews inspection with Region Chief/Cylinder Program Manager (as necessary)
 - Formalizes interviews, photos, documentation, etc.
 - Documents facts and evidence

Awaiting Corrective Action (within 30 Days)

 Attach to completed report and submit to Region Chief (within 60 days of receiving final independent testing)



The Inspection Process – Next Steps

- Region Chief/Director will review report
- Investigator generates "fitness memo" to be sent to Approvals
- File is reviewed by Approvals





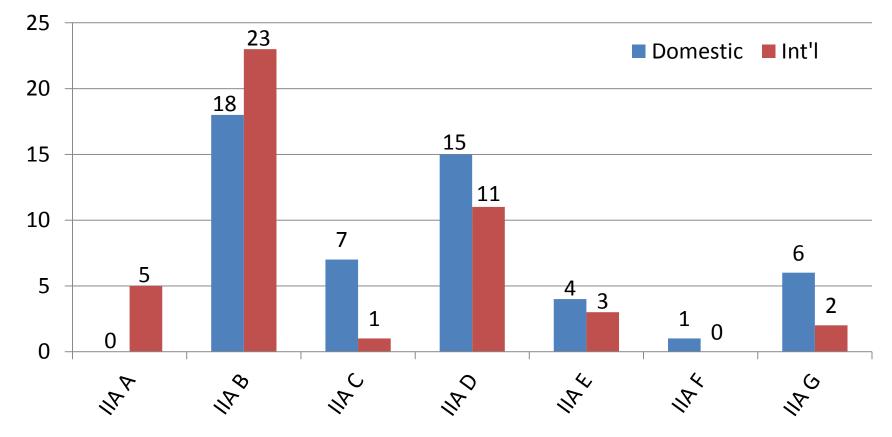
Inspection Results/Actions

- No Further Action (OK)
- Warning Letter
- Ticket for Non-Compliance
- Civil Penalty Case
 - General Counsel
- Criminal Case
 - General Counsel
 - Office of Inspector General (OIG)





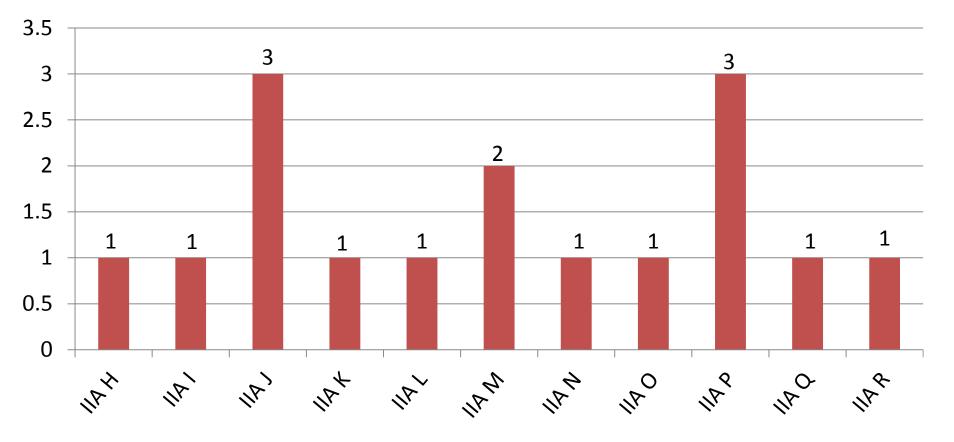
ACTIVITY OF DOMESTICALLY-BASED IIAs AS REPORTED (excluding requalifiers)





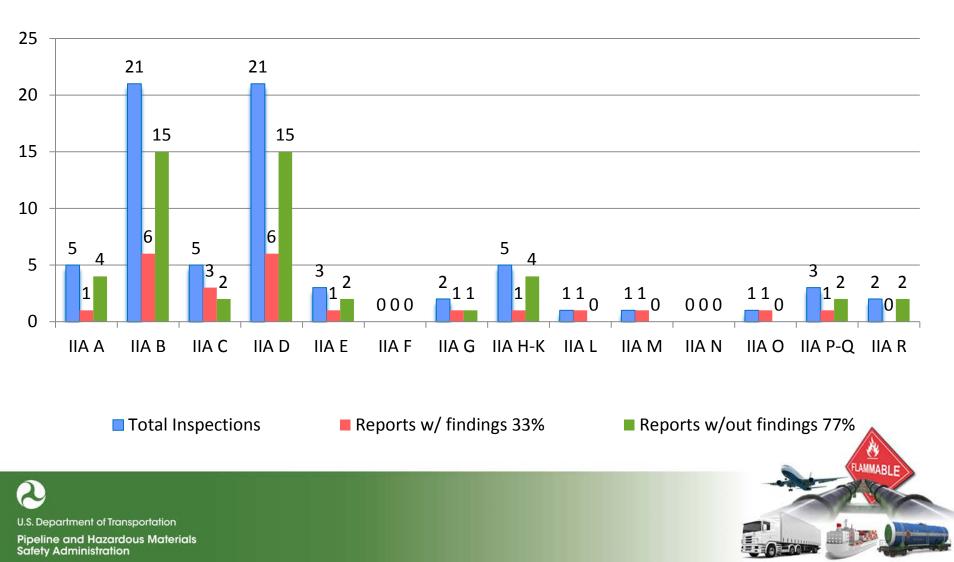


ACTIVITY OF INTERNATIONALLY-BASED IIAs AS REPORTED/KNOWN (at manufacturers)





IIA Inspections (70 from Jan 2011-Jul 2015)



Additional Issues

- Incomplete recommendations regarding corrective actions
- Failure to include all findings & supporting documentation
- Findings not linked to regulatory, approval, or an IBR requirement
- Including corrective action "proof" as part of your report





Additional Issues

- Misuse of inspection checklist with DOT symbol/letterhead
- Ensure assigned inspectors have completed training prior to DOT onsite inspection
- Relying too much on main IIA representatives to answer questions
- Ensure testing is performed in accordance with company SOPs, CFR 49, CGAs, Special Permits, and investigator's testing requests



QUESTION AND ANSWER TIME

What improvement would you suggest to enhance Enforcement/Field Operations?

What would you like to see happening that is not happening now?

What worries you the most about your role?





Safety Administration

Kimberly Yoder

Investigator

Pipeline & Hazardous Materials Safety Administration

Office of Hazardous Materials Safety Field Operations - Southern Region

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Safety Administration



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Closing Remarks

➤ What did we learn?

➢ How do we implement action?

➤What's next?



