This presentation is necessarily general in content and intended to provide an overview of certain aspects of jurisdictional inspections and has an edition date of April, 2011. This document is advisory in nature and is for informational purposes only. No liability is assumed by reason of the information this document contains. The information provided should not be relied upon as legal advice or a definitive statement of the law in any jurisdiction. For such advice, a listener or reader should consult their own legal counsel.

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WHY DO WE PERFORM JURISDICTIONAL INSPECTIONS

- Public Safety
  - Accidents
  - Injuries
  - Loss of Life
- Mandated by Law
  - Identify Violations
- Service (Insurance Industry & Third Party Inspection)

HISTORY

- National Board Incident Reports
  - Tracked
    - Accidents
    - Injuries
    - Deaths
  - Objects Tracked
    - Power Boilers
    - Heating Boilers Steam
    - Heating Boilers Water
    - Unfired Pressure Vessels

- Items Tracked
  - Safety Vales
  - Low-Water Condition
  - Limit Controls
  - Improper Installation
  - Improper Repair
  - Faulty Design or Fabrication
  - Operator Error
  - Poor Maintenance
  - Burner Failure
  - Unknown
HISTORY

- National Board Violation Reports
  - 2001 – Present
  - Track
    - Boiler Controls
    - Boiler Piping
    - Data Report/Nameplate
    - Boiler Components
    - Pressure Relieving Devices for Boilers
    - Pressure Vessels
    - Repairs & Alternations
### INCIDENTS VS. VIOLATIONS

#### TWELVE YEARS OF INCIDENTS

- **Accidents**
  - 26,490
  - 2208/year
- **Injuries**
  - 832
  - 69/year
- **Deaths**
  - 140
  - 12/year

#### NINE YEARS OF VIOLATIONS

- **Boiler Controls**
  - 160,854
  - 17,872/year
- **Boiler Components**
  - 75,801
  - 8,422/year
- **Boiler Piping & Other Systems**
  - 87,478
  - 97.20/year
- **Data Report / Nameplate**
  - 11,801
  - 13.11/year
- **Pressure Relieving/Boilers**
  - 88,163
  - 9,795/year
- **Pressure Vessels**
  - 61,920
  - 6,880/year
- **Repairs & Alterations**
  - 5,529
  - 614/year
## INCIDENTS VS. VIOLATIONS 2001-2003

<table>
<thead>
<tr>
<th>Incidents</th>
<th>Violations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accidents</td>
<td>Total Violations</td>
</tr>
<tr>
<td>5,371</td>
<td>130,468</td>
</tr>
<tr>
<td>1,790/year</td>
<td>43,489/year</td>
</tr>
<tr>
<td>Injuries</td>
<td>Violations/Accident</td>
</tr>
<tr>
<td>196</td>
<td>24</td>
</tr>
<tr>
<td>65/year</td>
<td>8/year</td>
</tr>
<tr>
<td>Deaths</td>
<td>Violations/Injury</td>
</tr>
<tr>
<td>25</td>
<td>665</td>
</tr>
<tr>
<td>8/year</td>
<td>221/year</td>
</tr>
<tr>
<td></td>
<td>Violations/Death</td>
</tr>
<tr>
<td></td>
<td>5,218</td>
</tr>
<tr>
<td></td>
<td>1,739/year</td>
</tr>
</tbody>
</table>

## INTEGRITY & ETHICS

- What does this mean
- How do we practice it
<table>
<thead>
<tr>
<th>NATIONAL BOARD EXAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>● ASME Code</td>
</tr>
<tr>
<td>● National Board Inspection Code</td>
</tr>
<tr>
<td>● Jurisdiction Laws &amp; Regulations</td>
</tr>
<tr>
<td>● On the Job Training</td>
</tr>
<tr>
<td>● Practice Exams</td>
</tr>
<tr>
<td>● Classes</td>
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</table>

<table>
<thead>
<tr>
<th>YOUR FIRST JURISDICTIONAL INSPECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>● Proud</td>
</tr>
<tr>
<td>● Enthusiastic</td>
</tr>
<tr>
<td>● Conscientious</td>
</tr>
<tr>
<td>● Frightened</td>
</tr>
</tbody>
</table>
YOUR FIRST JURISDICTIONAL INSPECTION

- **TOOLS**
  - Coveralls
  - Boiler Hammer
  - Clipboard
  - Flashlight
  - Screw Driver
  - Inspection Mirror
  - State Inspection Form
  - ASME Code
  - NBIC
  - Jurisdictional Regulations
OUTSIDE INFLUENCES

- Good representative of your company
- Good representative of the jurisdiction
- Ensuring safety to the public
- People have their equipment prepared for inspection
- Sufficient time to complete a thorough inspection and build a relationship
- You have other duties outside of jurisdictional inspections

JURISDICTIONAL INSPECTIONS TODAY

- Proud
- Enthusiastic
- Conscientious
- Confident
JURISDICTIONAL INSPECTION
PAST vs. TODAY

- TOOLS
  - Coveralls
  - Boiler Hammer
  - Clipboard
  - Flashlight
  - Screw Driver
  - Inspection Mirror
  - State Inspection Form
  - NBIC
  - Jurisdictional Regulations

- TOOLS
  - Coveralls
  - Clipboard
  - Flashlight
  - Inspection Mirror
  - Confined Space Equipment
  - Lock Out Tag Out Equipment
  - Borescope
  - Computers or Tablet
  - Computers
Three Sections

Availability
- Hardcopy
- Electronically
- Through IHS (Information Handling Service)

Inspection Section
- Technical Information
- Inspection requirements

National Board Web Site
- Commissioned Inspectors
  - Inspection Guides
  - Topics of Interest
OUTSIDE INFLUENCES

- Good representative of your company
- Good representative of the jurisdiction
- Ensuring safety of the public
- Equipment is not prepared for inspection
- It takes longer to prepare for inspection
- You have other duties outside of jurisdictional inspections
- There is more work and less time to complete
- You don’t feel you have sufficient time to do the inspection and you are not building a relationship
- You are not comfortable with the new technologies
**NEGATIVE RESULTS OF INFLUENCES**

- Complacency
- Taking short cuts
- Not following inspection requirements
- Inspections with no one present but you
- Compromise safety
- Falsifying reports
- Missing violations
- Higher potential for incidents

**HOW CAN WE HELP**

- Become part of the solution
  - Is there more work than one person can do properly?
  - Does the person need technology training?
- Annual Inspection Code of Conduct Training
- Audits
  - Required by Quality Assurance Manual (NB369)
  - Complete as a joint visit & provide feedback
- Talk with the jurisdiction
  - Some jurisdictions are doing audits
  - Are you getting results?
I Chose To Look The Other Way

I could have saved a life that day,  
But I chose to look the other way.  
It wasn't that I didn't care,  
I had the time, and I was there.  
But I didn't want to seem a fool,  
Or argue over a safety rule.  
I knew he'd done the job before,  
If I called it wrong, he might get sore.  
The chances didn't seem that bad,  
I've done the same, he knew I had.  
So I shook my head and walked on by,  
He knew the risks as well as I.  
And with that act, I let him die.

I could have saved a life that day,  
But I chose to look the other way.  
Now every time I see his wife,  
I'll know I should have saved his life.  
That guilt is something I must bear,  
But it isn't something you need to share.  
If you see a risk that others take,  
That puts their health or life at stake.  
The question asked, or thing to say,  
Could help them live another day.  
If you see a risk and walk away,  
Then hope you never have to say,  
I could have saved a life that day,  
But I chose to look the other way.

Author Unknown