Day In The Life Of A State Inspector

Gary Teel
Senior Safety Engineer
Who We Are?

What We Do?

Why We Do It?
CALIFORNIA

- 800 Miles long
- 160,000 Sq. Miles
- 230,000 State Employees
- DIR – 2,800 Employees
Almost all workers in CA are protected by Cal/OSHA regulations (standards)

What workers are not covered?

- People who are self-employed
- Family members of farm workers who work on the family farm
- Federal employees working in California. These workers are covered by Federal OSHA
Who are the State Inspectors?
How Long Has the DOSH Pressure Vessel Unit Been Around?
The State of California’s Industrial Accident Commission issued the Boiler Safety Orders effective January 1, 1917.
What do We do?
Inspect and Issue Operating Permits for Boilers
Instruct Owners of Possible Unsafe Conditions
Inspect and Issue Permits for Air Tanks
Perform Inspections and Issue Operating Permits for LPG Tanks
Vince Inspecting an LP Tank at a Winery in Santa Ynez
Joe Mara Inspecting an LP Tank in Temecula
Inspect CNG Facilities
Typical CNG Storage
We Inspect H2 Fueling Facilities
Currently 35 H2 Fueling Stations in CA with ~ 100 expected by 2020
H2 Fueling Pump
Bank of H2 Tanks
H2 Cars
How Many Permitted Items Are There in California?

What are Total Number of Boilers/Pressure Vessels with a Permit in 2017:

- Boilers – 8,394
- LPG Tanks – 36,207
- Air Tanks – 165,855
- State – 97,850
- Insurance – 112,527

Total Number of Permitted Items – 210,367
Other Than Inspecting Vessels/Boilers

What Else Do We Do?
Act as Repair Inspectors. Auger built to ASME Code Undergoing Repairs
Perform R Stamp Reviews
“R” Review at a DOT Facility
Review Non-Code Vessels For Acceptance as Equivalent To Code
Space X Testing Vessel from Texas
We act as Authorized Inspection Agencies (AIA) here performing an ASME Joint Review at Chevron El Segundo.
Update Regulations - Title 8 Re-Write Committee Meeting in Oakland
Administer the CA Certificate of Competency Exam
Sit on Code Committees – Don Cook conducting the National Board Committee Meeting in San Diego
Rerate Package

For
Chevron - Richmond
Item Number HE-2220
Service: Purified Water Preheater
(Horizontal Heat Exchanger)

Manufactured by Bumwoo Engineering Co.
S/N: 06PK007-01-02  NB#: 20  Built: 2008

Code of Construction:
Answer a Lot of Phone Calls
Enter Inspection Reports
Work With Industries to Improve Their Quality Control Programs
Actually Go To The Field to Inspect/Evaluate Unusual Vessel Repairs
Verify Testing - Jeff Anderson Witnessing a Hydrostatic Burst Test of a FRP Vessel in the Mojave Desert
Conduct Accident Investigations
ExxonMobil Torrance Refinery ESP Explosion
Hyatt Boiler Explosion in Sand Diego
Some accidents are very easy to determine the cause!
Work with other Safety Agencies to Investigate Accidents
Worked with NTSB and CHP to determine cause of CNG Tank Explosion
Why Do We Do It?
LPG Tank exploding at a Pallet Yard in Northern CA