

# Day In The Life Of A State Inspector

Gary Teel  
Senior Safety Engineer

Who We Are?

What We Do?

Why We Do It?

# CALIFORNIA

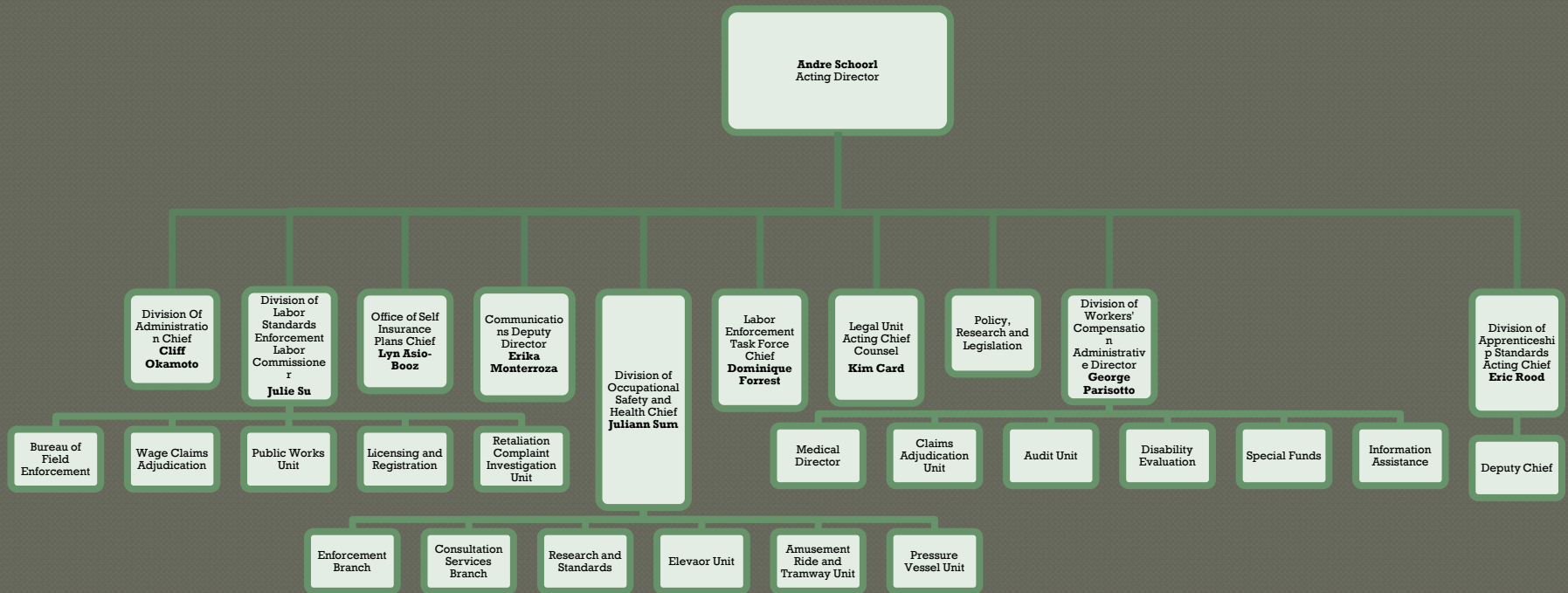


Almost all workers in CA are protected by Cal/OSHA regulations (standards)

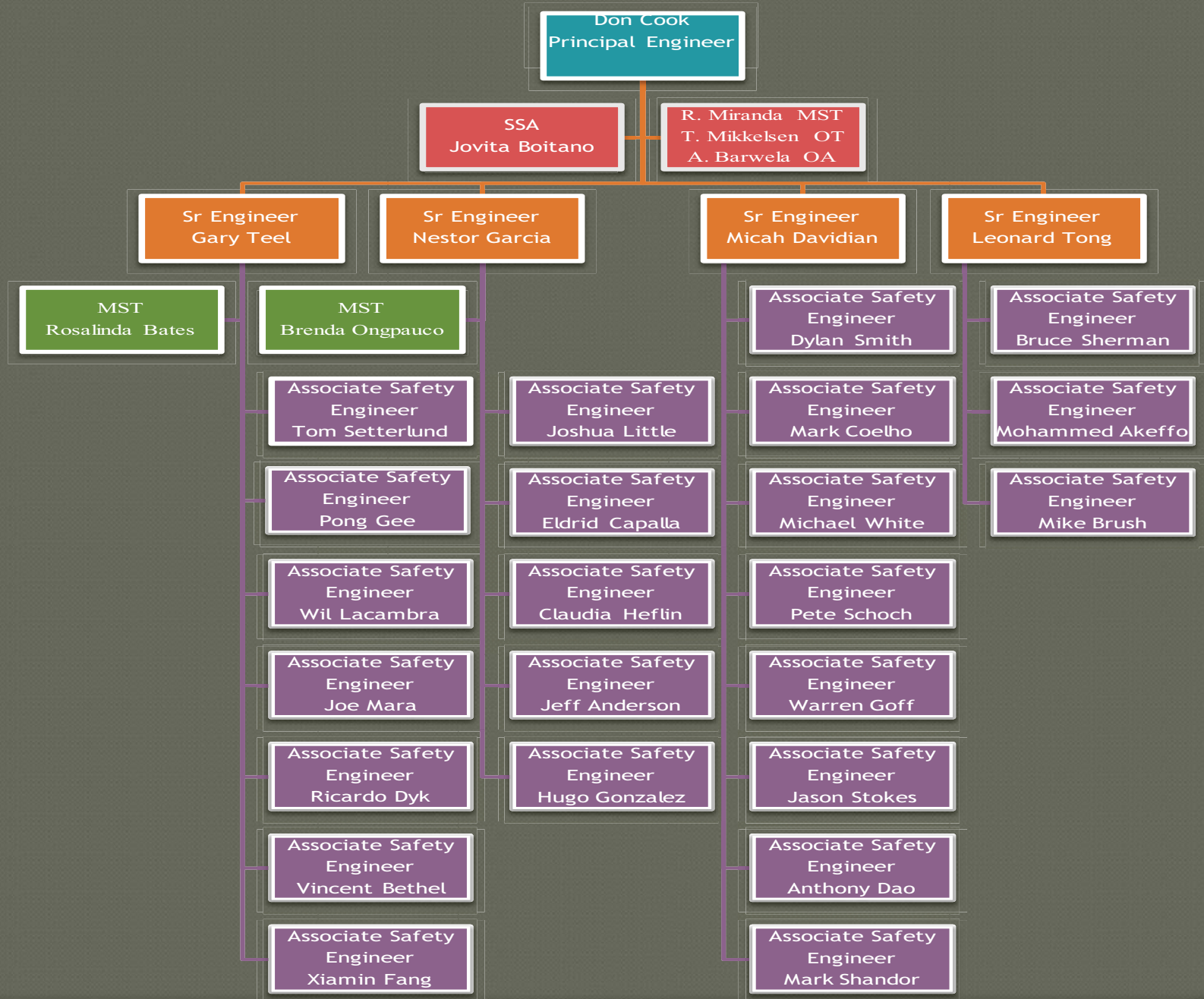
What workers are not covered?

- 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

# Department of Industrial Relations (DIR)



# 2018 Pressure Vessel Unit Organizational Chart



Who are the State Inspectors ?

# Pressure Vessel South



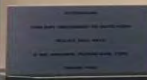
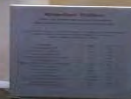






A hand holding a smartphone is visible in the foreground on the left side of the image. The background features a modern, multi-story building with large windows and concrete pillars, surrounded by green trees and a paved walkway. The text is overlaid on the right side of the image.

State of California  
Department of Industrial Relations  
Division of Occupational Safety and Health



**215**

**Pressure Vessel Unit South**



# Pressure Vessel Unit North



# PV Headquarters Oakland



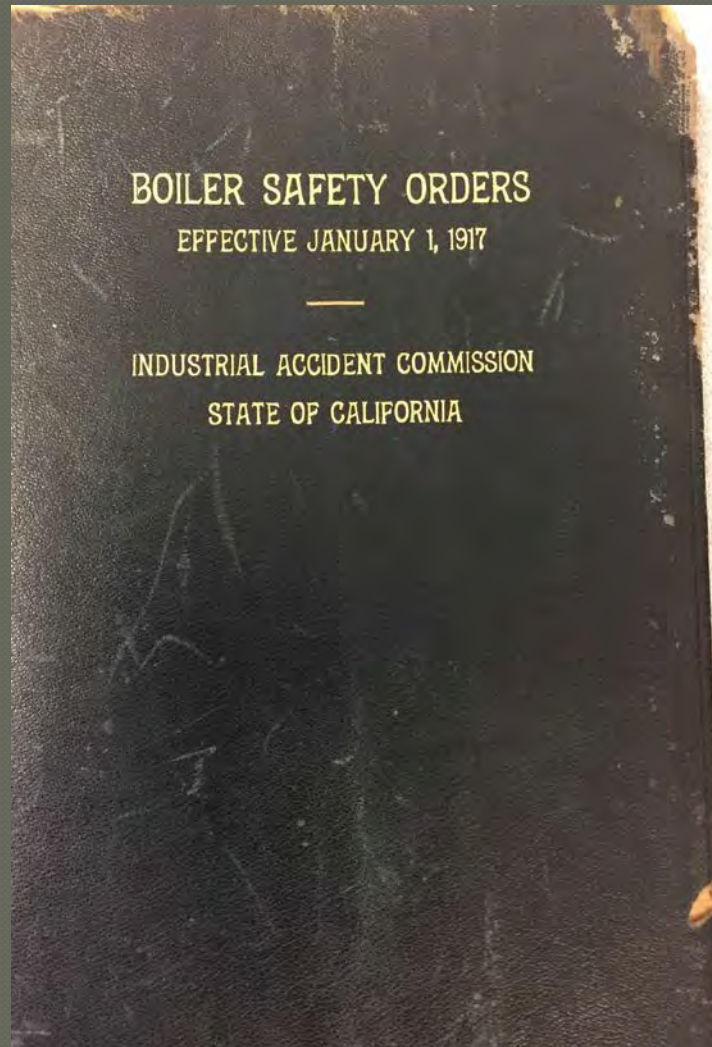




How Long Has the DOSH Pressure  
Vessel Unit Been Around?

The State of California's Industrial Accident Commission issued the Boiler Safety Orders effective January 1, 1917.

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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





PROPANE

FLAMMABLE

NO SMOKING OR OPEN FLAMES OR SPARKS  
NEARBY AT ANY TIME

# Joe Mara Inspecting an LP Tank in Temecula



**QuietCool**  
**Ingersoll Rand**

55-17



# Inspect CNG Facilities



# Typical CNG Storage





# We Inspect H2 Fueling Facilities



Currently 35 H<sub>2</sub> Fueling Stations in CA with ~ 100  
expected by 2020



# H2 Fueling Pump



# Bank of H2 Tanks

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# H2 Bicycle

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# 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



W U  
MAWP 200 PSI  
MAEWP - PSI  
MDMT 32 F  
SN R2026-01-1A  
YEAR BUILT 2016  
C U  
METSO  
CERTIFIED BY  
MINERALS BY  
IND INC  
AT - F 650/F  
AT - 200 PSI



# Perform R Stamp Reviews





# “R” Review at a DOT Facility



# Delfino



# 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



# Review Rerate Packages

**Redman Equipment & Manufacturing Company**

**Job Number 16-742B**

## **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:**

**ASME Section VIII-1, 2004 Ed., 2005 Add.**

# Review Fitness For Service Assessments



# 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



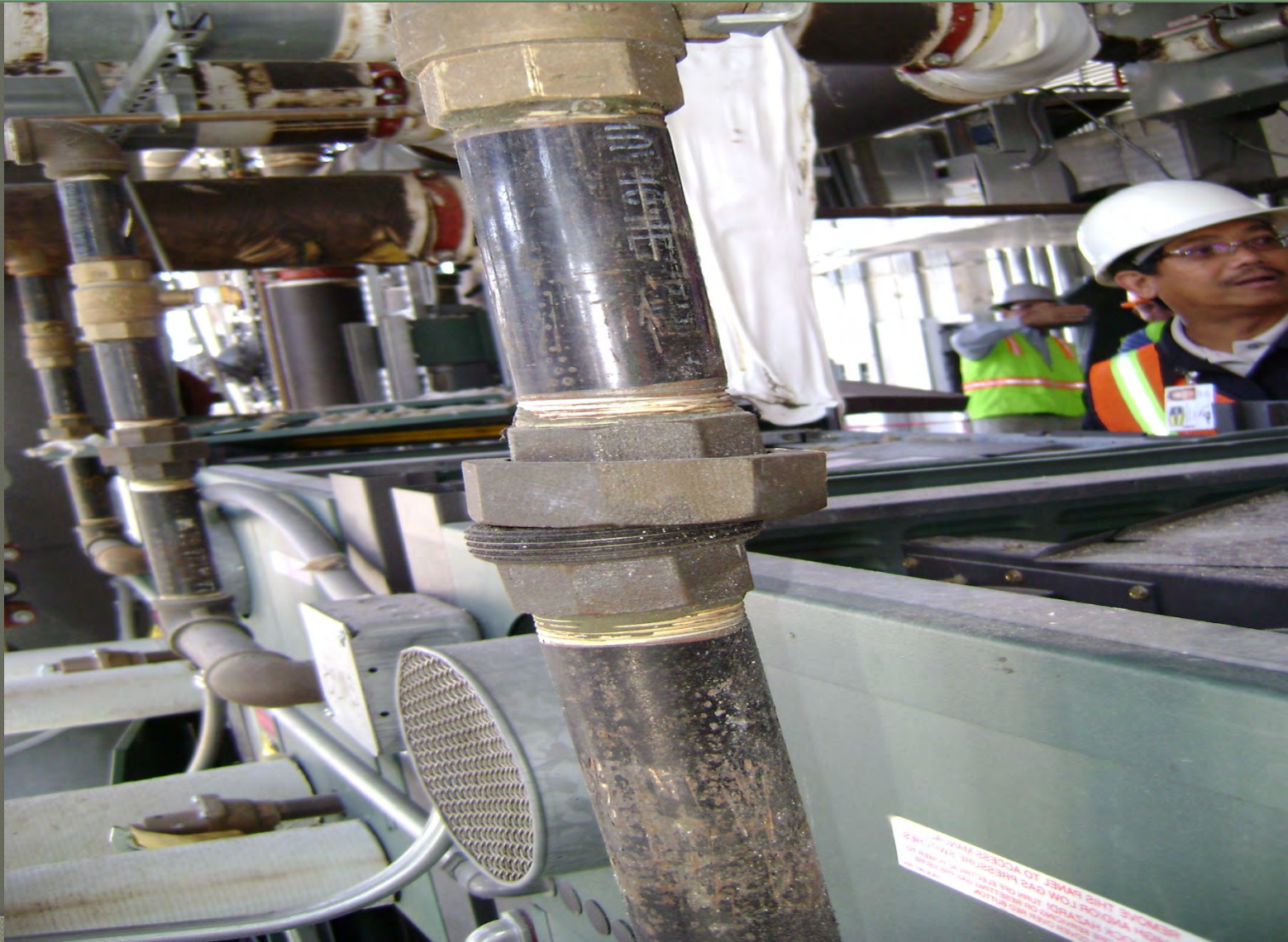
# ExxonMobil Torrance Refinery ESP Explosion



# Hyatt Boiler Explosion in Sand Diego



Some accidents are very easy to determine the cause!



# Work with other Safety Agencies to Investigate Accidents

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# Worked with NTSB and CHP to determine cause of CNG Tank Explosion





**Why Do We Do It?**

**Biagi**  
Bros.





# LPG Tank exploding at a Pallet Yard in Northern CA





8690-15

CORNING

CORNING











