SCE&G®
A SCANA COMPANY

Refuel 17 Plans

V.C. SUMMER NUCLEAR STATION

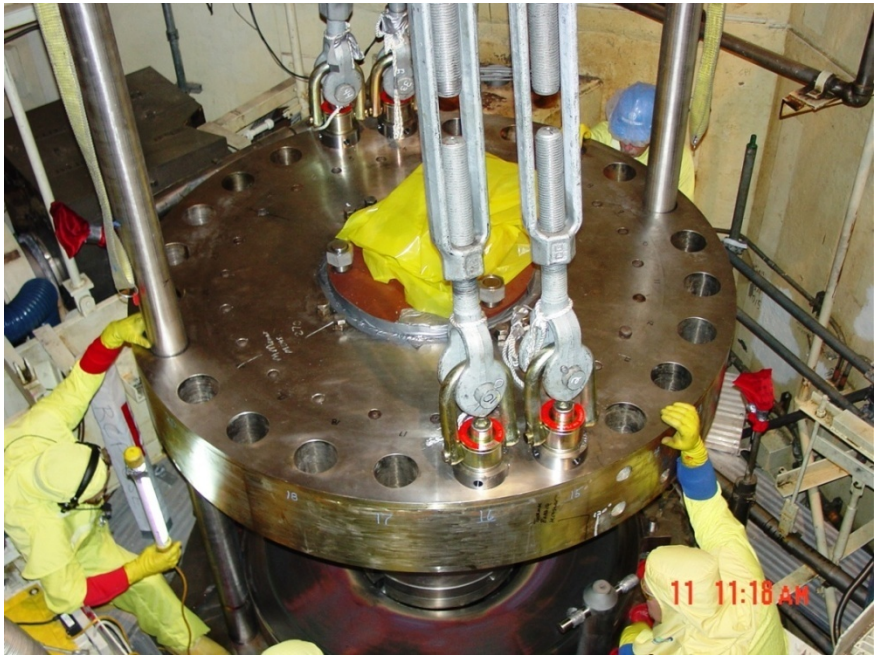
Don Shue
Manager, Planning & Outage Management

Outage Overview:

- Outage Begins: April 25, 2008
- Duration: 38 Days
- Outage Goals Focus:
  - Nuclear Safety
  - Radiological Safety
  - Industrial Safety

Outage Goals:

- Nuclear Safety Significant Events: 0
- Human Performance Events: ≤ 1
- Recordable Injuries: ≤ 1
- Dose: 75 REM
- Post Outage Capacity Factor: 96%



Outage Goals:

- Outage Milestones: 95% On Time
  - Currently Met 47 of 48 (98%)

Focus Area - Labor

- Required Resources:
  - 500 General Workers
  - 200 Specialty Contractors
- Focus Areas:
  - Welders & Pipe Fitters
    - 6 PSNC
    - 12 Fossil/Hydro
  - Crane Operators & Riggers
  - Scaffold Builders

Focus Area - Work Control

- New Work Control Process (CMMS)
- Includes
  - Danger Tagging
  - Work Control
  - Materials Management
  - Condition Reports
- Increased Focus By Information Services

Edit Equipment

General | Cost | Specs | Calendar | Location | Safety

Equipment Id	XPP0030C				
Name	REACTOR COOLANT PUMP C				
Status	A	Discontinued?	☐		
Class	Equipment	Criticality	Crit 1 Group 9	Safety Indicator	
Type	PUMPS	Sub-type	PUMPL:Pumps Large	Size	96600GPM
Make	C BOM:RB-01	Model	W-11015-A1(93A)	Serial Number	3S84P903
Part Id		Material Account	NUVCS 02435300000	Labor Account	NUVCS 02435300000
Description	VERTICAL, SINGLE STAGE. FOR PUMP INTERNALS USE ID# XPP0087C. FOR OIL LIFT PUMP DATA REFER TO 1MS-94B-162-0 REMOVE/REPLACE INS SEE EQ ID XPP0030C-SS1 FOR SEAL MAINT SYS				
Fixed Asset Id	XPP0030C	Acquired Date	00/00/0000	Vendor	
Original Value		Date Installed	00/00/0000	Vendor Phone #	
Book Value		Life Expectancy	00/00/0000	Purchase Order	546-164614
Salvage Value		Depreciation		PO Date	00/00/0000
Lease Id		Expiration Point		PO Cost	

RF-17 Major Projects

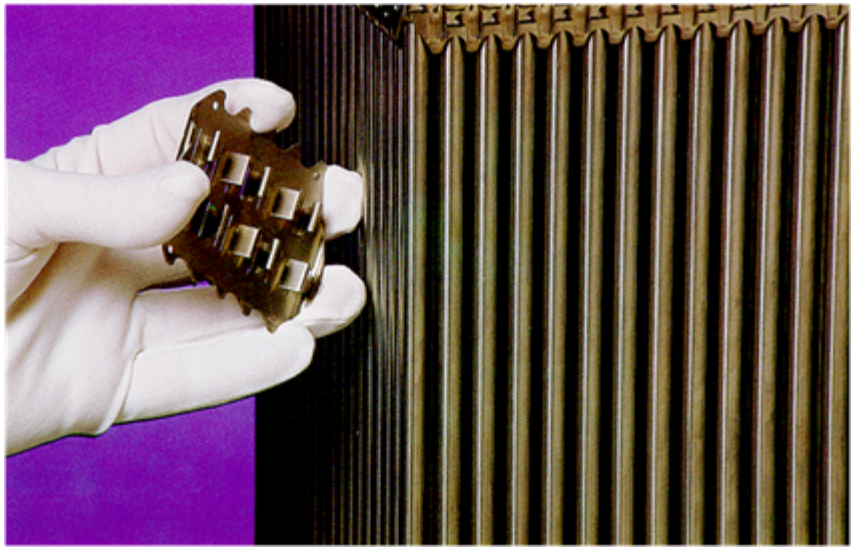
Reactor Core Offload & Reload:

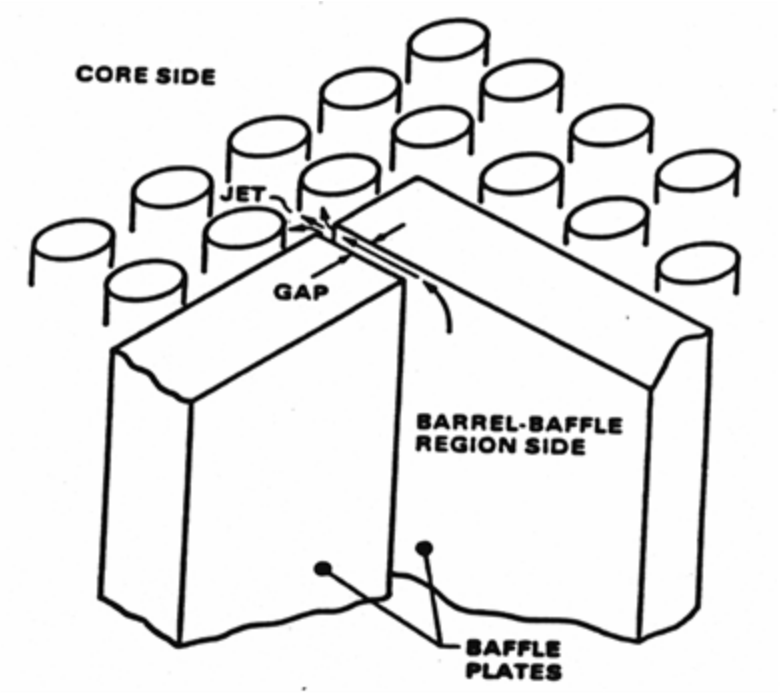
- Assemblies:
  - 68 New Assemblies
  - 89 Visually Inspected Reinsert Assemblies
- Install New RCCAs

- Lead Test Assembly
  - Visual Inspection
  - Cladding Oxidation
  - Assembly & Rod Growth
- Increased FME Focus

Reactor Core Offload & Reload:

- Baffle Jetting
  - Clipped 8 Assemblies
  - Visual Inspection of 32 Outer Assemblies





- Contingencies:
  - In Mast Sipping, UT, Reconsitution
  - Additional Clipping
  - Core Redesign

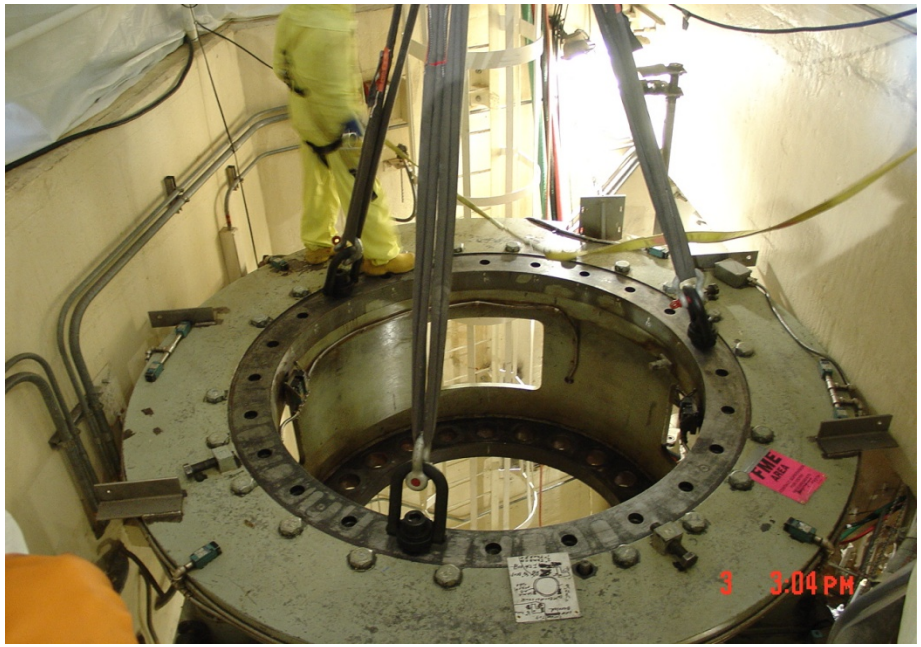
Pressurizer Weld Overlay:

- Required By Material Reliability Program Number 139 (MRP-139).
- VC Summer Allowed Deviation to 2008
- Will Overlay Six Nozzles
  - Surge Line (1)
  - Safety Valves (3)
  - Spray Line (1)
  - Power Operated Relief (1)
- WSI Will Be Repair Vendor

“C” RCP Flange Gasket Replacement:

- Slow Weep on Startup Under Cold Conditions
- Does Not Weep Under Hot Conditions

- Will Upgrade Flange Using Hydranuts
- AREVA Will Be Repair Vendor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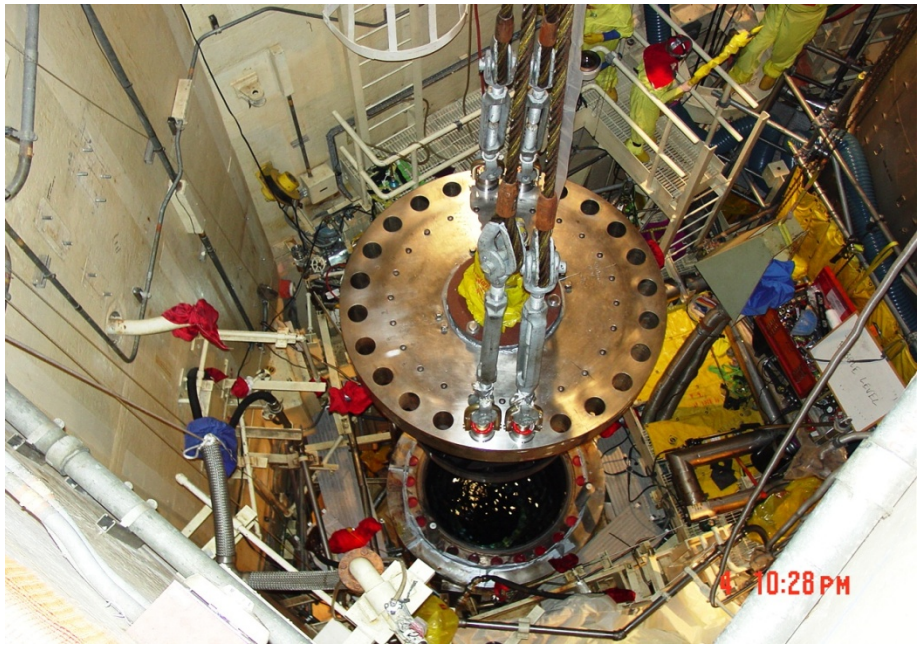
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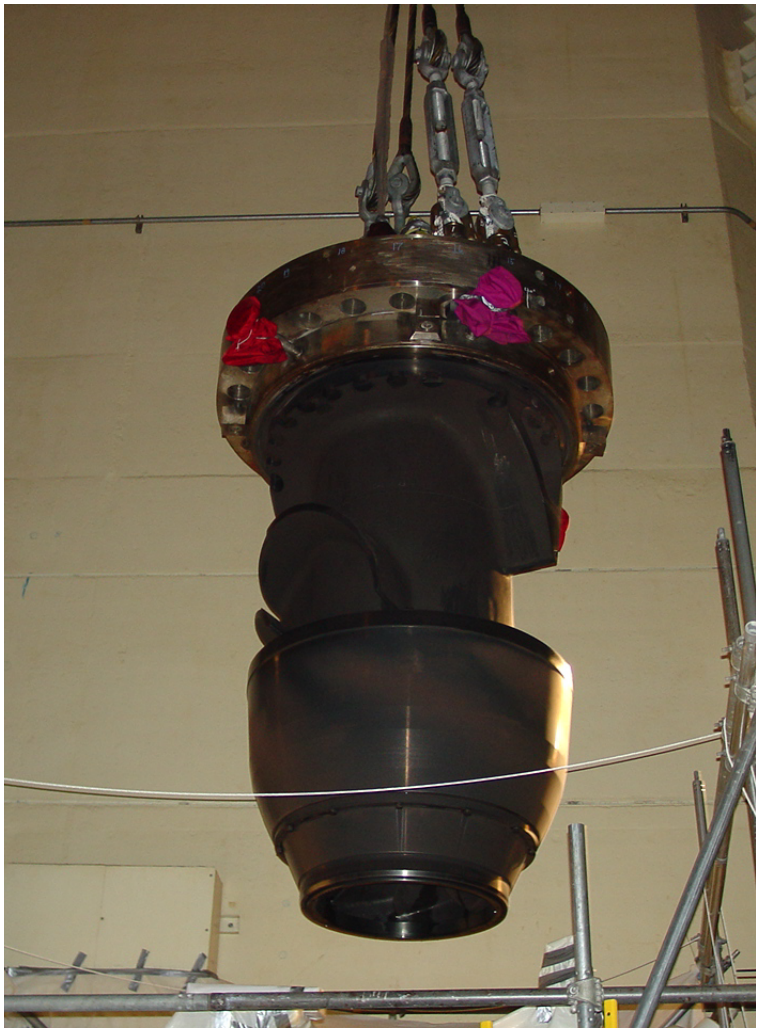

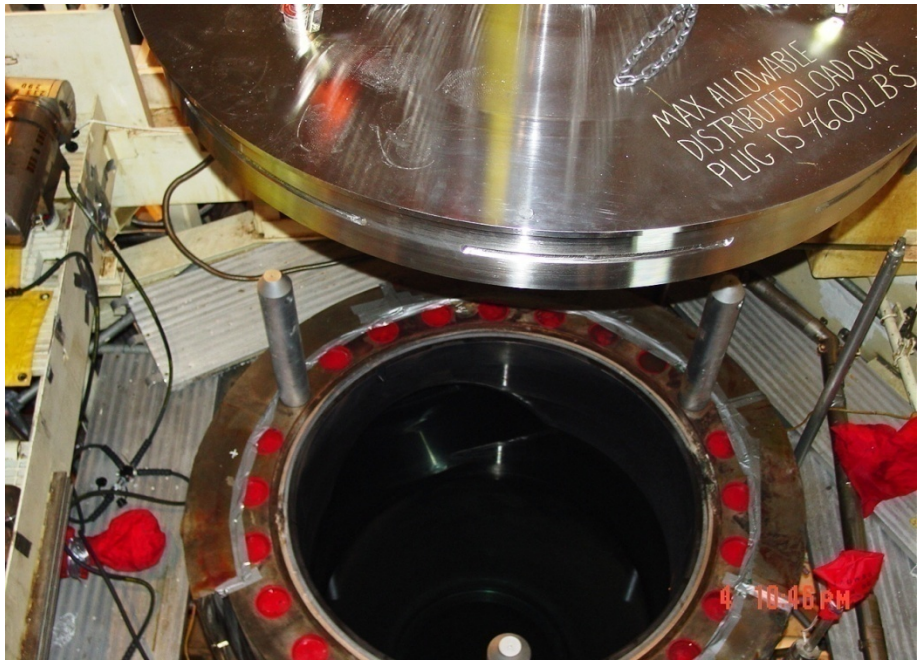
MAX ALLOWABLE
DISTRIBUTED LOAD ON
PLUG IS 4600LBS
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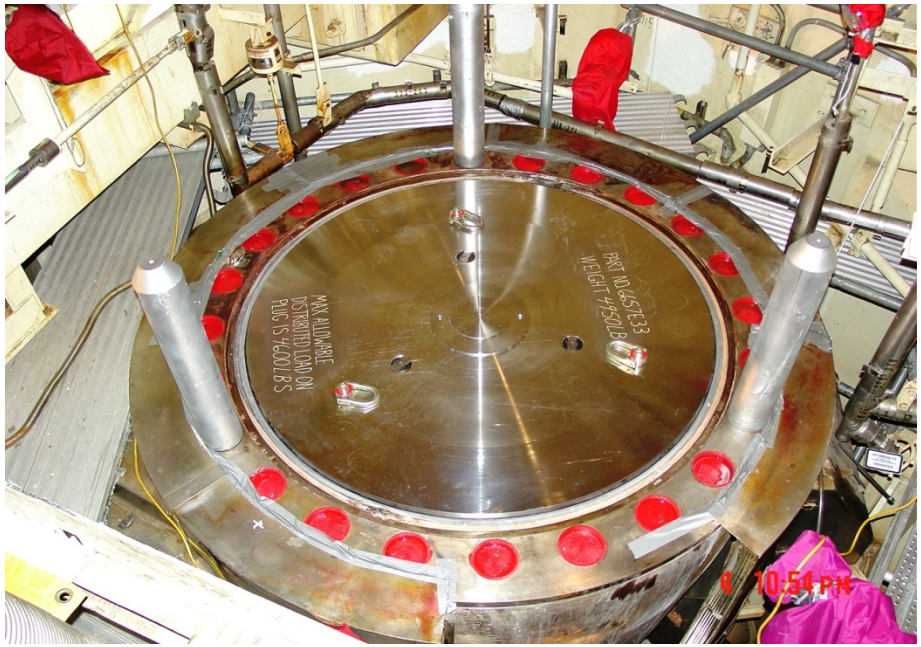
MAX ALLOWABLE
DISTRIBUTED LOAD ON
PLUG IS 4600LBS
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PROOF TESTED
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B.5.B Large Area Fire Enhancements

- Completed Online Plant Changes in 2007
- Will Complete Physical Changes During Refueling

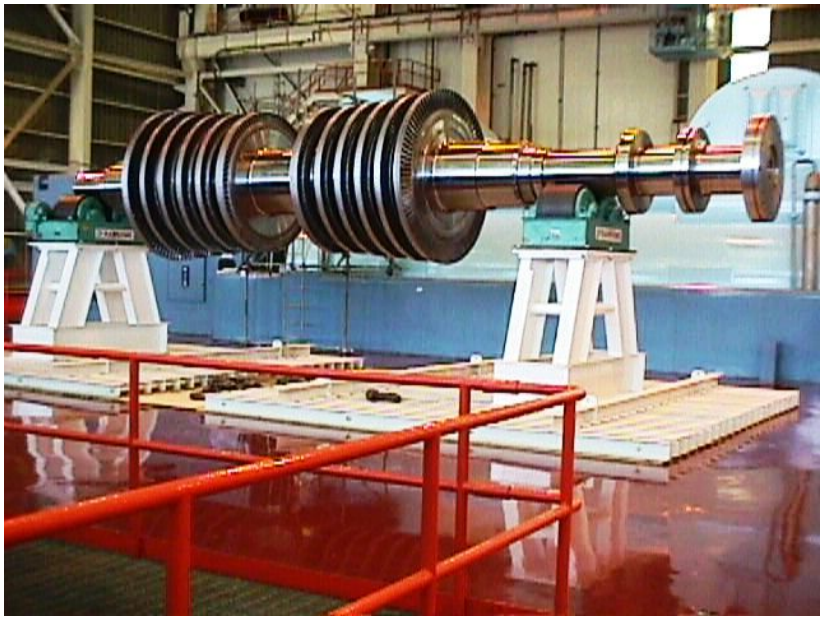
- System Modifications:
  - Main Feedwater
  - Condensate
  - Reactor Building Spray

Generic Letter 2008-01 Items

- Gas Accumulation In:
  - ECCS
  - Decay Heat Removal
  - Containment Spray
- RF-17 Actions:
  - Laser Templating of Susceptible Lines
  - Piping Ultrasonic Exams
  - Procedure Changes To Ensure System Flow & Remove Potential Voids

High Pressure Turbine Inspection:

- Double Axial Six Stage Monoblock Turbine
- Rotor Installed in Refuel-11 (April 1999)



- Inspection Includes
  - Cleaning
  - Inspection
  - NDE

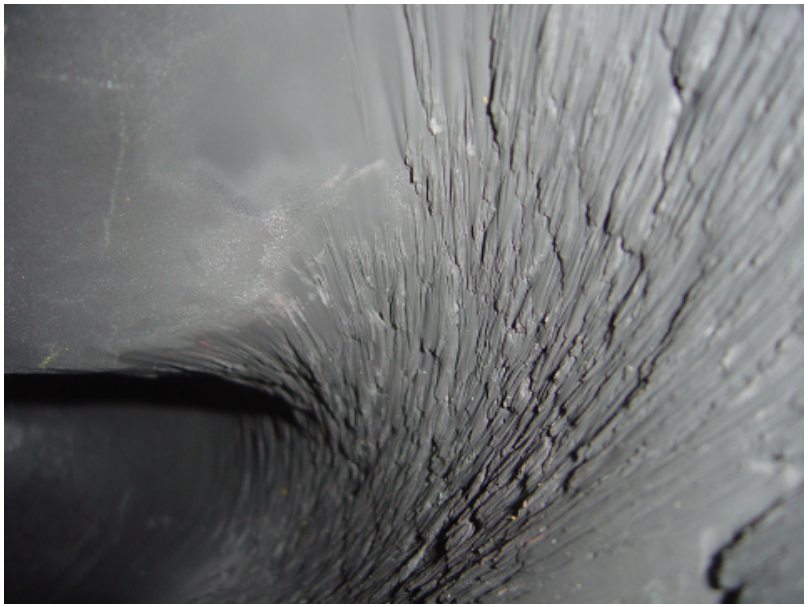
Main Generator Inspection:

- First Inspection Since Generator Rewind In Refuel-15
- Assessment of Stator and Rotor

- Robot Inserted Into Generator
- Performs Wedge Tapping On Stator

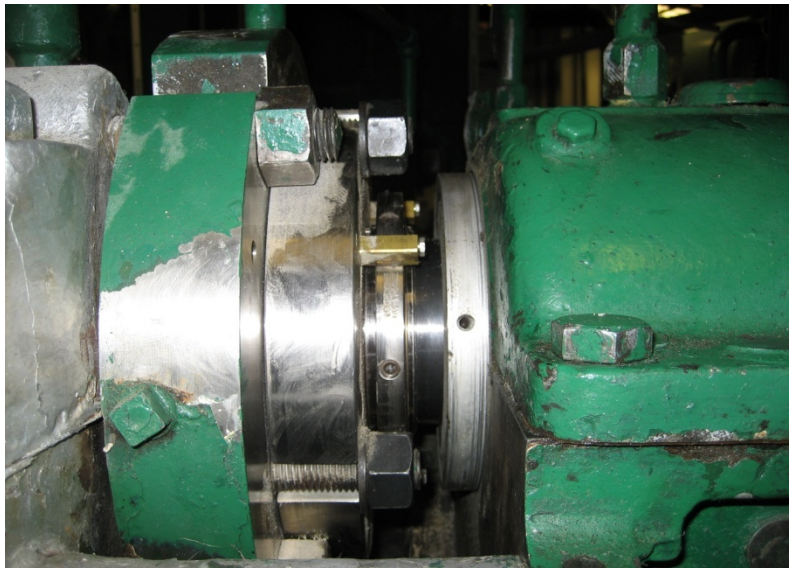
Secondary FAC Inspections:

- Inspecting Multiple Locations (165 Total)
- Some May Require Component Replacement



Feedwater Booster Pump Repairs:

- "A" Pump Will Have Seals Replaced
- "B" Pump Will Be Refurbished Including New Seals



- PSE and Vendor Designed New Seal
- "C" & "D" Pumps Previously Refurbished

Circulating Water Pump Motors:

- Began Purchase of New Motors Over 2 Years Ago
- Install New Motor Onto "B" CW Pump

- The "Old" CW Motor Will Now Be A Spare
- New Motors Will Be More Reliable

Questions?