

# PICKERING 'A' UNIT 4 BOILER 6 HOT SOURCE

**Scott Cameron** 

Pickering B RPM





#### The world is watching



















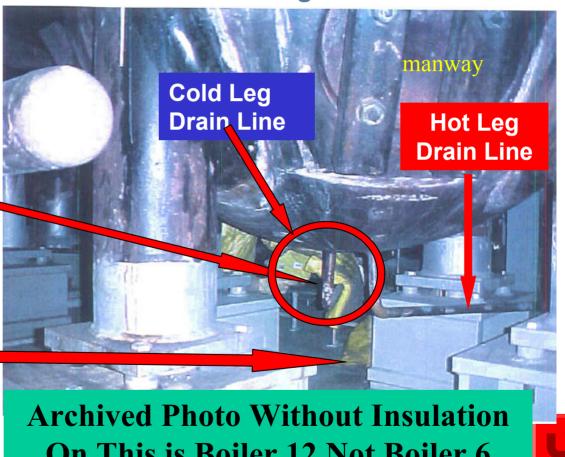
#### PROBLEM STATEMENT

High Energy Source Identified in the Cold Leg Drain Line of Unit 4,

>450,000 rem/h **ESTIMATED CONTACT** GAMMA DOSE RATE @ 1cm 18,000 rem/h @ 5cm 500 rem/h @ 30cm

> 350 rem/h JUST **BELOW HOT LEG DRAIN LINE**









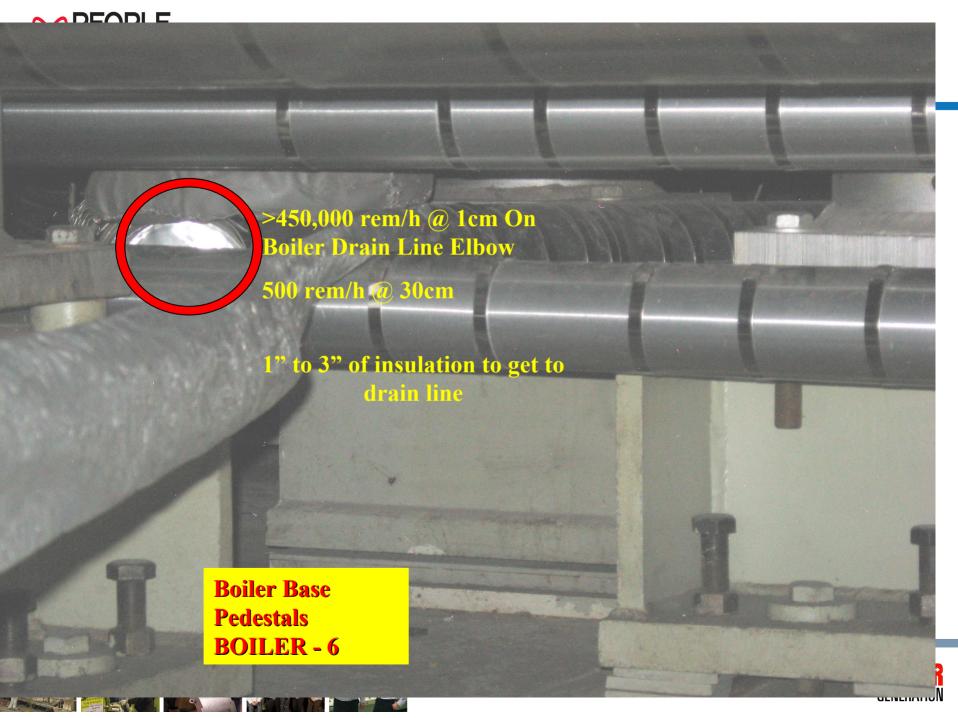






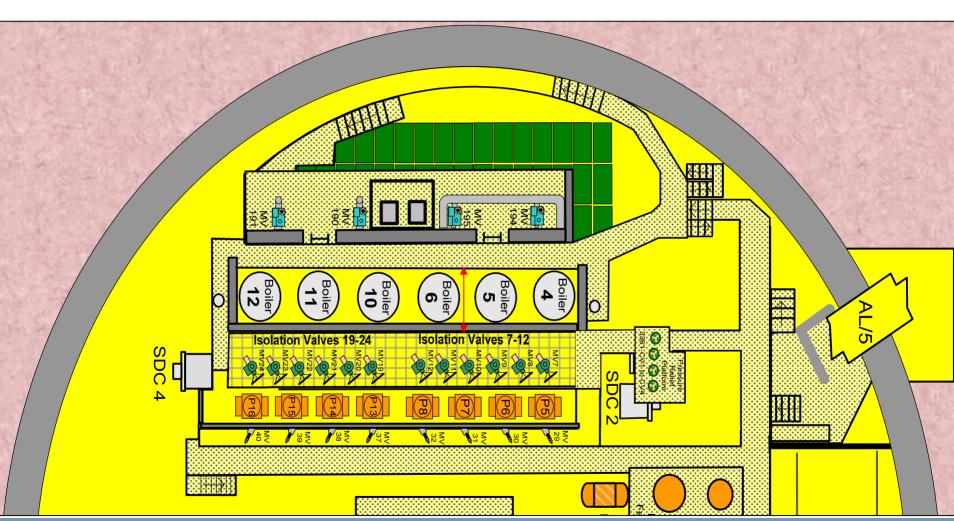








## POWERING THE AREA THAT SOURCE AFFECTS











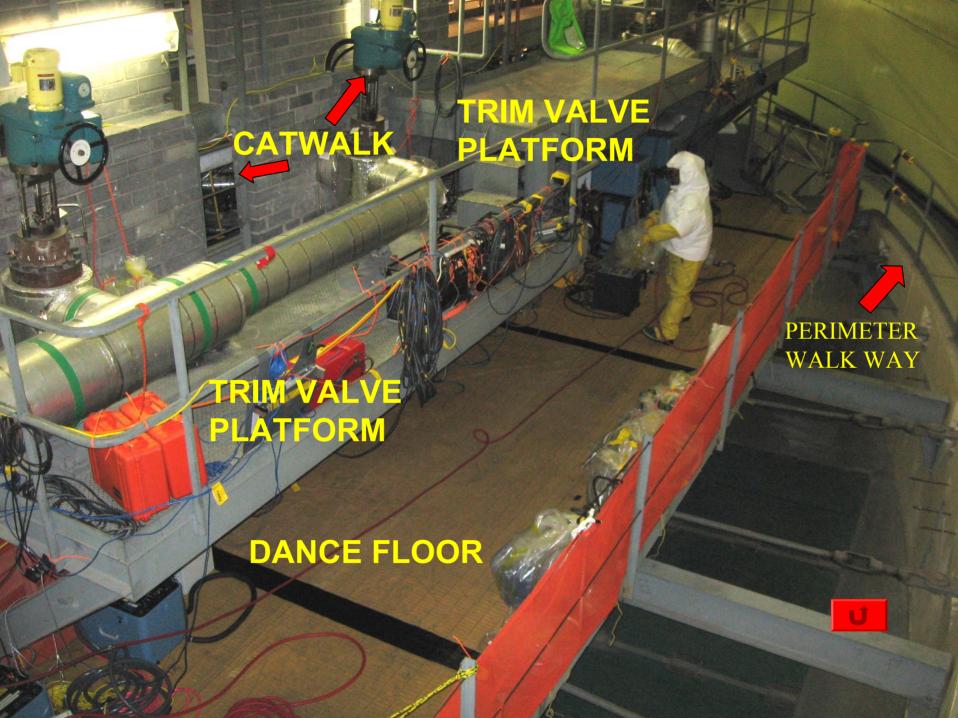














#### **Path Forward**

1. FLUSH AND CAPTURE

2. IF FLUSH AND CAPTURE FAILS: 1) SHIELD BOILER 6
(USING LONG HANDLED TOOLS, ROPES) 2) RUN PARALLEL
PLAN TO DO WORK ON EAST SIDE, PLAN FOR CUT OUT
DURING P1041 OUTAGE

3. PLAN DEVELOPED FOR CUT OUT DURING THIS OUTAGE IF TIME PERMITS.





















#### FLUSH AND CAPTURE

#### **OPERATIONAL METHOD:**

Forced drain to a shielded catch container (particle will progress in drain line/drain hose to two IX Columns in parallel.

Risk-particle doesn't move

Contingency- See Option 2 Above

Risk- Particle becomes lodged on route in steel line drain line before reaching tygon hose.

Contingency- Shield (depending on location). Continue with boiler campaign on west side, develop plan for next outage to cut out.





















#### Had to make it past this

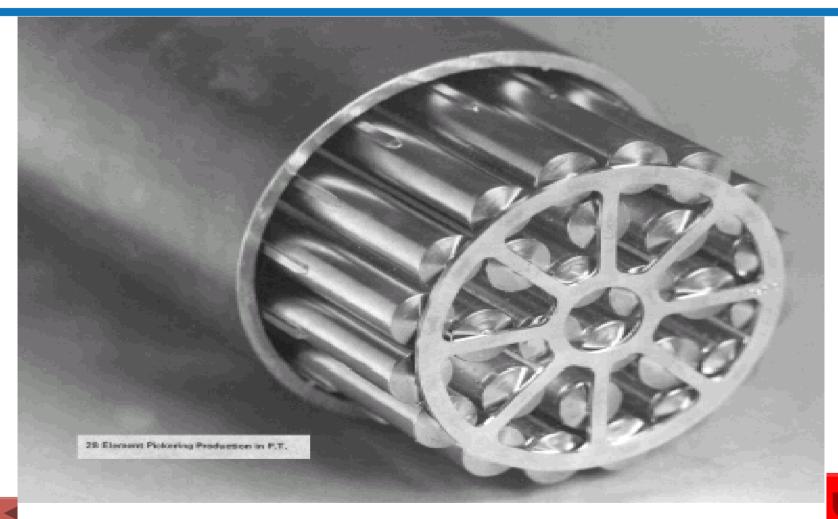


Figure 2.6: 28 Element Pickering Fuel Bundle in Pressure Tube



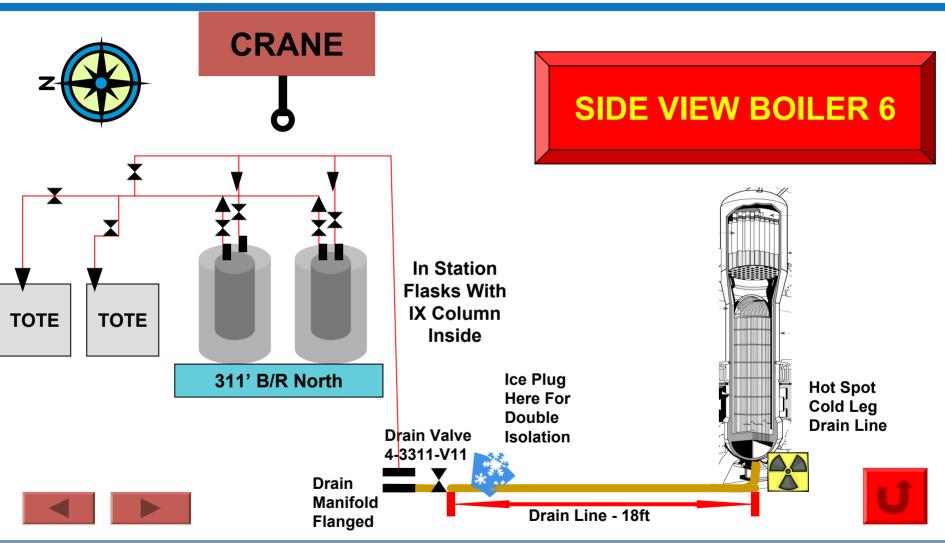








## PEOPLE DRAWING OF FLUSH AND CAPTURE OPTION 2

















#### PREREQUISITE ACTIVITIES

- 1. Draft Work Plan (complete)
- 2. Address assessing requirements (complete)
- Develop and procure tooling (complete)
- 4. Set up mock up (IP unit 3)
- 5. Acquire resources (complete base staff)
- Training (ready)
- 7. Transfer of Particle Issues (IP)
- 8. Target Dates (Feb 19&20)
- 9. Approval of Back-Up Schedule and Implementation









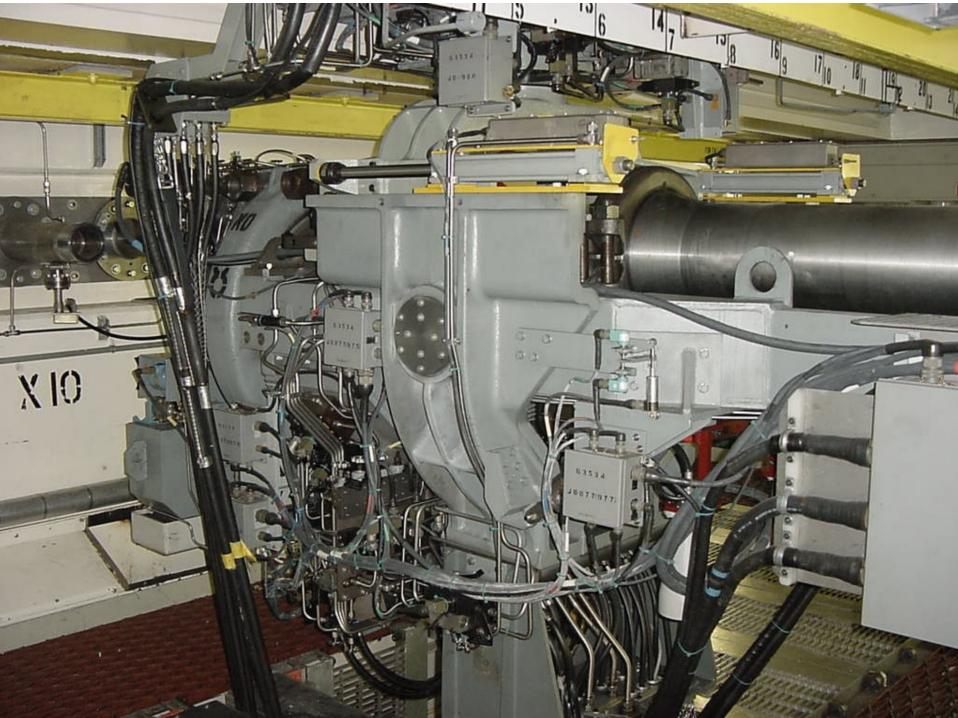














# To be continued...... Oct 2009 Vienna













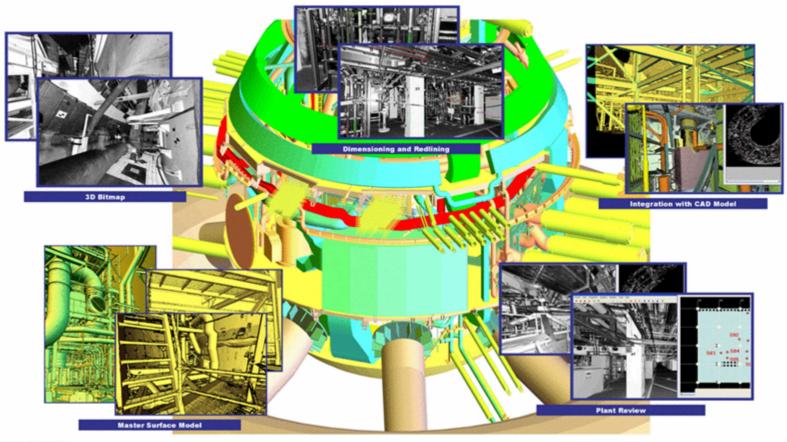






### Laser Scan Space Manager

#### **PanoMap**





Construction Systems Associates, Inc. www.csaatl.com

