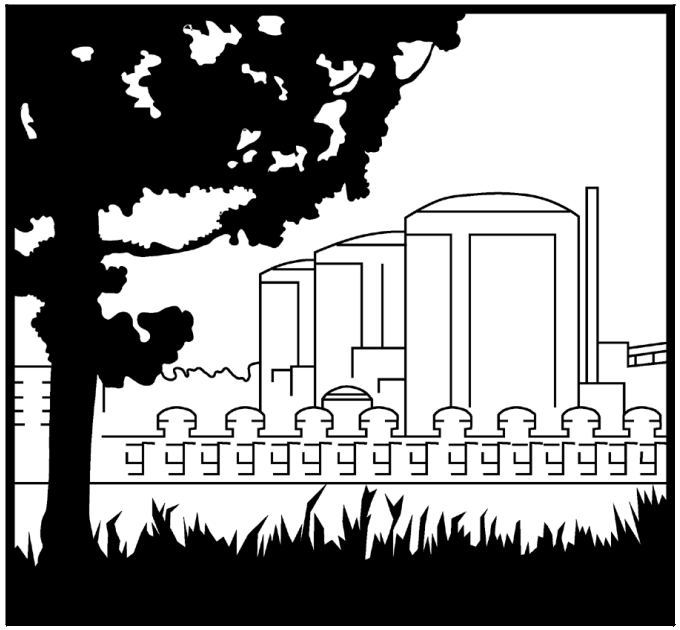
Duke Power®
A Duke Energy Company

Oconee Nuclear Station
High Energy Line Break
Outside Containment



Summary of East Penetration Room Activities
NRC Update

November 14, 2005

Duke Power®
A Duke Energy Company

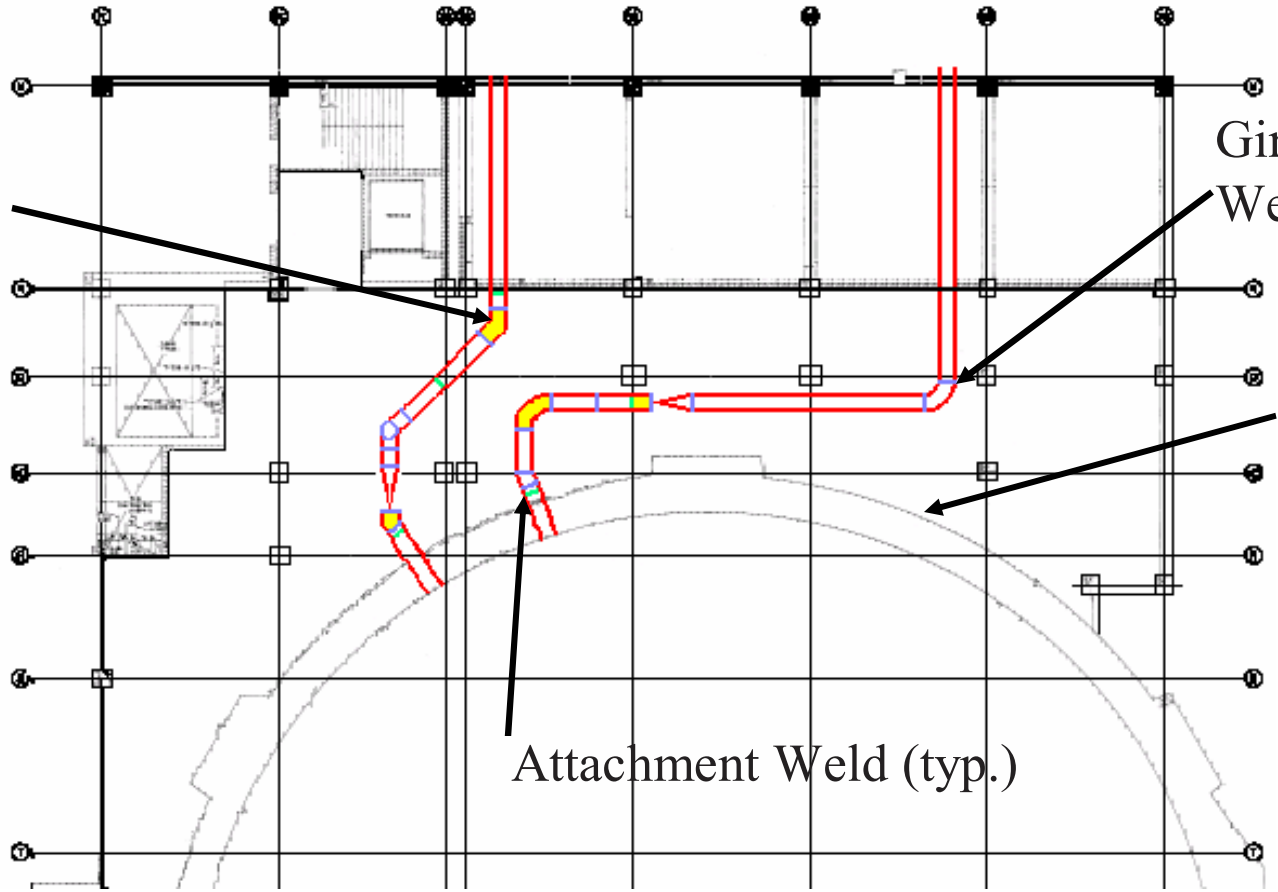
Agenda

- Main Feedwater Piping Inspections
- Electrical Penetrations Inspections and Repairs
- Status of East Penetration Room (EPR) Flood Prevention Modifications

Duke Power
A Duke Energy Company

MFDW Piping Inspections

Unit 2 East Penetration Room



Duke Power®
A Duke Energy Company

MFDW Piping Inspections

- Depending on the unit, there are between 13 to 16 girth butt welds and between 3 to 5 attachment weld locations currently in the elective ISI category. The girth butt welds are inspected by UT.

- Attachment weld locations include the attachment welds at the rupture restraints (8 attachment welds per rupture restraint). These welds are visually inspected as well as receiving either a MT or PT.

- Each unit has four locations inspected as part of the Flow Accelerated Corrosion (FAC) Program. The base metal at these locations is inspected by UT.

Duke Power®
A Duke Energy Company

MFDW Piping Inspections

Previous Inspections:

- Elective inspections of girth butt welds began in 2003.
- To date 3 girth butt welds in Unit 1 and 5 girth butt welds in Unit 3 have been inspected.
- During the current 2EOC21 outage, 11 girth butt welds will be inspected. In addition, a limited amount of base metal adjacent to these welds will be inspected. 3 attachment weld locations will also be inspected (including the 8 attachment welds at each rupture restraint).
- All four FAC locations in Unit 1 were inspected in 2003. Two of the four FAC locations in Unit 2 were inspected in 2004. All four FAC locations in Unit 3 were inspected in 2003.
- UT inspection data collected to date shows that no weld or piping component location has a thickness less than code minimum (.986").

Duke Power®
A Duke Energy Company

MFDW Piping Inspections

Future Inspections:

- All girth butt welds and attachment welds in all units will be inspected by the Spring of 2008. Afterwards, all welds will be inspected once during a given ISI interval.
- Additional locations will be added to the FAC inspection program.
- Piping base metal downstream of the isolation valves not enclosed by the guard pipe will receive, at a minimum, a UT inspection every ten years.
- Attachment welds at the terminal end (inside the guard pipe) will be visually inspected every ten years.

Duke Power®
A Duke Energy Company

Electrical Penetrations

- Configuration of electrical penetration enclosures has not been maintained.
- Initiated inspection and repair program to restore the enclosures to correct configuration.
- Inspections performed on selected Unit 2 EPR electrical penetrations consisting of all HELB mitigation related (4) and 6 other penetrations with missing covers.
- No degradation of terminal boards or connections was noted. Some minor rusting of enclosure interior bottom and minor debris was found.
- Inspection and restoration of other units penetrations are planned for the upcoming Unit 3 (Spring 2006) and the Unit 1 (Fall 2006) outages.

Duke Power®
A Duke Energy Company

Electrical Penetrations / cont.

Duke Power®
A Duke Energy Company

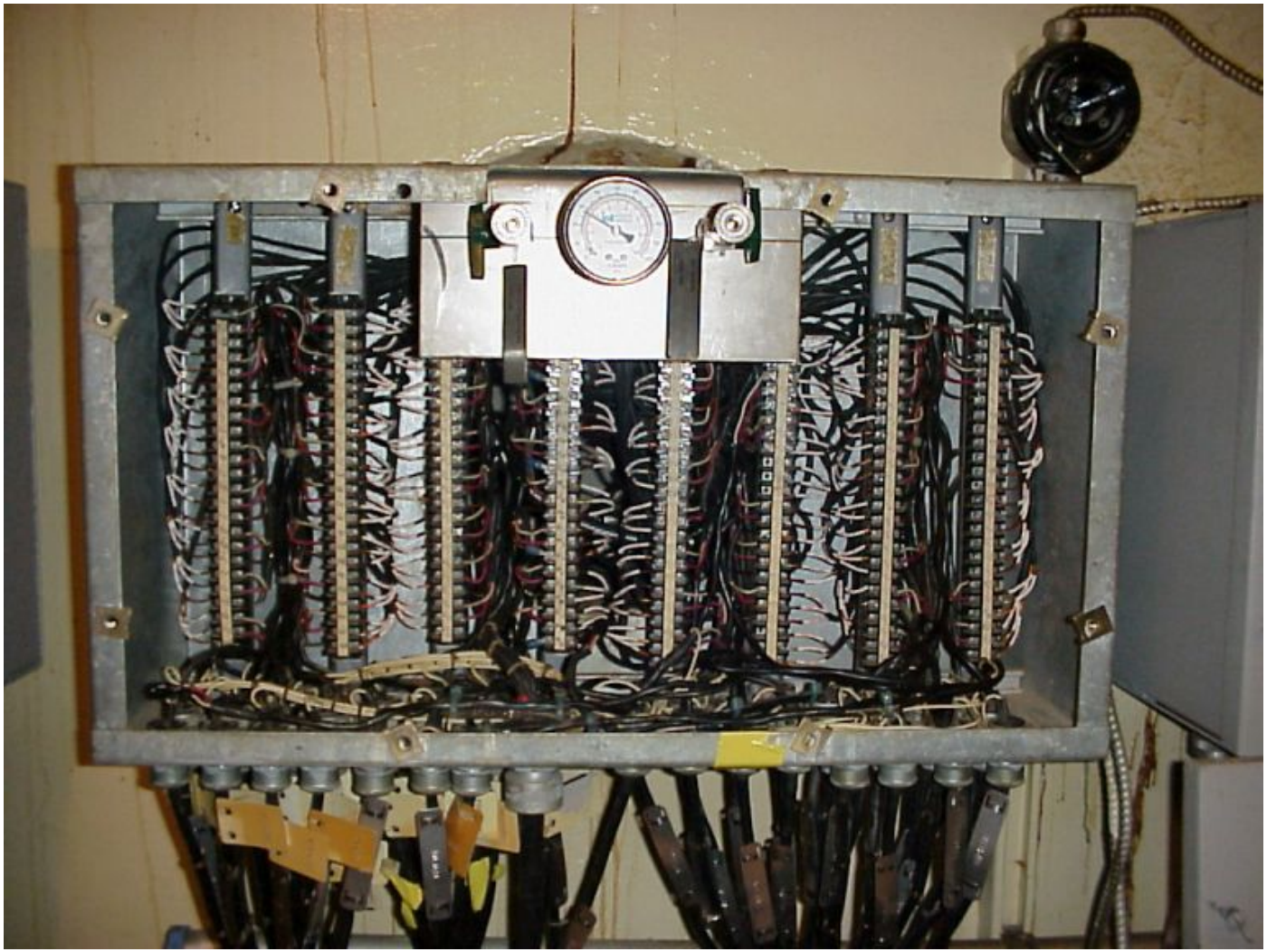
Electrical Penetrations / cont.

Duke Power®
A Duke Energy Company

Electrical Penetrations / cont.

Duke Power®
A Duke Energy Company

Electrical Penetrations / cont.



Duke Power®
A Duke Energy Company

Electrical Penetrations / cont.

- Activities are underway to create a Preventative Maintenance Program.

- Program will ensure that the electrical penetrations cover boxes will be free from debris and corrosion.

Duke Power®
A Duke Energy Company

EPR Flood Prevention Modification

- Conceptual design of flood outlet device will be completed by 11/21/05. Detailed design will be completed by 1/15/06. First unit's installation package will be completed by 2/8/06. Remaining units' packages will be completed by 3/1/06. Implementation will begin with the Spring 2006 Unit 3 outage.
- Design of impoundment modifications will begin in the first quarter of 2006. Design completion is expected by the third quarter of 2006.
- Flood outlet device and wall/door modifications will be designed to mitigate both the full guillotine break and the ½ D x ½ t crack scenario defined in the Giambusso letter.
- Modifications will ensure that the resulting water level in the EPR will not cover critical instrumentation.

Duke Power®
A Duke Energy Company

Summary

- Inspection of MFDW piping welds and base metal is underway. These inspections will give greater confidence of the structural integrity of the MFDW piping. All welds are to be inspected by Spring 2008.
- Inspection and Repair of Electrical Penetrations is underway.
- A Preventative Maintenance Program for the Electrical Penetrations is under development.
- Design work has begun on the EPR flood prevention modification.