NRC FORM 658
(9-1999)

U.S. NUCLEAR REGULATORY COMMISSION

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Do not include proprietary materials.

DATE OF MEETING
09/25/2002

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s)	**50-348 AND 50-364**
Plant/Facility Name	**FARLEY, UNITS 1 AND 2**
TAC Number(s) (if available)	
Reference Meeting Notice	**AUGUST 19, 2002**
Purpose of Meeting (copy from meeting notice)	**TO DISCUSS KAOWOOL ISSUES**

NAME OF PERSON WHO ISSUED MEETING NOTICE	TITLE
F. RINALDI	**PROJECT MANAGER**

OFFICE
NRR

DIVISION
DLPM

BRANCH
PD II-1

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Docket File/Central File
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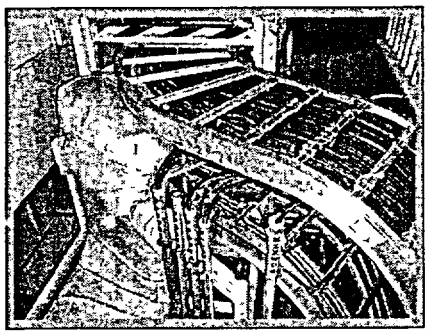
DFO

Raceway Fire Barrier Resolution Project



Farley Nuclear Plant

Project Status

September 25, 2002

SOUTHERN COMPANY

Energy to Serve Your World

AGENDA

- Kaowool Recap
- Current Resolution Status
- Risk Informed / Performance Based – Fire Modeling of SWIS

Raceway Fire Barrier Resolution

Kaowool Recap

FNP selected and installed Kaowool to meet original raceway fire protection requirements BTP APCSB 9.5-1 (late 70's)

FNP requested and was granted specific Appendix R exemptions to 1hr fire barrier requirements based on Kaowool use. (mid 80s)

NRC questioned technical basis of exemptions and acknowledges their approval but no longer understands the basis for granting (1999)

SNC commits to address NRC concerns (2000)

Raceway Fire Barrier Resolution

Current Resolution Status

19 Fire Areas Affected

Preferred Solutions are:

- **Reroute Cable**
- **Install Fire Rated cables**
- **Installation of Local Indication**
- **Add controls to Hot Shutdown Panel**
- **Enhance operator actions**
- **Service Water Intake Structure Fire Modeling**
- **Administrative Controls**
- **Upgraded Fire Barrier Walls**
- **Exemptions**

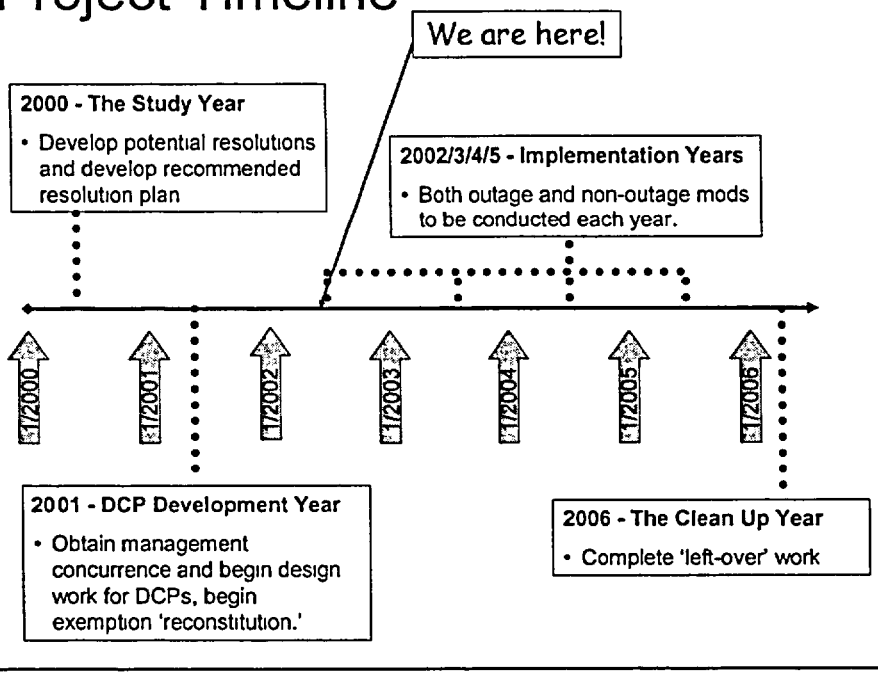
Raceway Fire Barrier Resolution

Current Resolution Status

- 30 to 35 Design Change Packages will be developed
- 5 DCP's have been issued. One is complete; several are being worked during the current Unit 2 outage.
- Our Plan is to be complete with all modifications by end of year 2005.

Raceway Fire Barrier Resolution

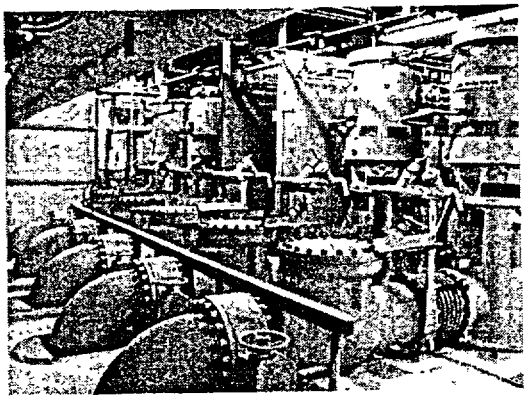
Project Timeline



Raceway Fire Barrier Resolution

Risk Informed / Performance Based Modeling at the SWIS

SWIS houses the service water pumps (ultimate heat sink)



Raceway Fire Barrier Resolution

Modeling at the SWIS

- Approximately 1350 feet of Appendix R Kaowool
- Rerouting is not feasible
- Removal of current wrap may involve complex personnel protection requirements
- Rewrapping cable with new wrap does not provide significant safety improvement

Raceway Fire Barrier Resolution

Modeling at the SWIS

- SNC has conducted a pilot study of a risk informed / performance based fire model at the SWIS
- Pilot performed by outside consultants and follows the guidelines of NFPA 805
- Model Results:
  - A fire of sufficient magnitude to cause loss of function of redundant trains of cables is extremely unlikely
  - Much better improvement in CDF/LERF is achieved by other modifications than re-wrapping cable trays

Raceway Fire Barrier Resolution

Modeling at the SWIS

Modeling of SWIS has shown that other modifications do provide a safety improvement

- Isolation of a DG Control Circuit
- Elimination of the need for Unit 2 service water booster pumps by modification of service water pump seals
- Enhancement of the swing pump fire barrier to prevent spreading fire from one train to another.

Raceway Fire Barrier Resolution

Conclusions

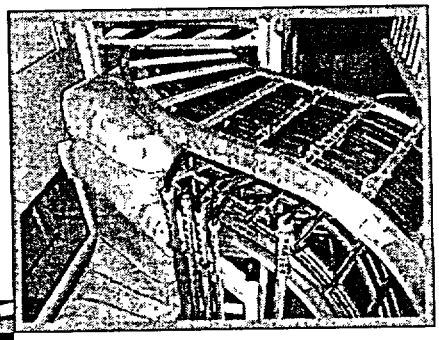
SNC is on schedule to complete all Kaowool fire barrier work by end of 2005.

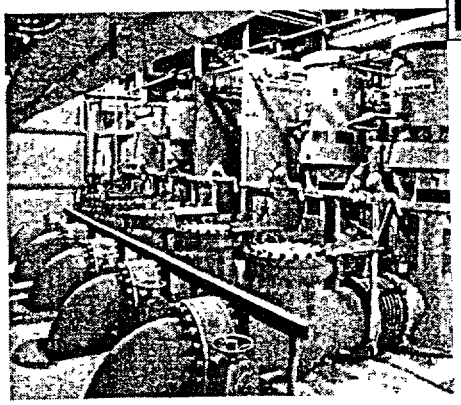
This date is contingent on the acceptance of fire modeling for the SWIS

Pilot Fire modeling of the SWIS has shown that modifications as opposed to re-wrapping of cables improves plant safety

Utilization of risk insights and fire modeling can result in greater safety improvement than strict compliance with Appendix R

QUESTIONS ??





QUESTIONS ??