

Seabrook Concrete Degradation due to ASR

Preamble

Seabrook – There has been a degradation of safety related and other important concrete structures apparently due to Alkali-Silica Reaction (ASR) – micro-cracking weakening of concrete – there is a need to coordinate Part 50 and Part 54 activities. Overall goals are:

– Ensure unison of expectations from all involved divisions to reflect one voice of agency in the review for functionality and the aging effects – it is difficult to separate out the two technical reviews but there are two separate processes that need to be respected with respect to Part 50 on operability/functionality and Part 54 on the management of aging effects.

– Per IMC 2516, License Renewal Inspection Program, we need to ensure key assumption of license renewal - that the current licensing and design bases be maintained (IMC 2515 - ROP).

– Need a tracking mechanism for open issues and dates with a record of completion. Minimum information in database should be as follows:]

Numbering to Below Code

Parallel Path Area (code)

Action

Due Date

Org Lead

Orgs in Support

Open/Closed Status

Completion Date

Completion Reference

Comment

Various Parallel Paths

Numerous actions have been completed to the end of June 2011. It is intended to summarize these actions in a memorandum to file (previous action plan), while establishing a regulatory footprint using the inspection process and to keep track of those open actions heretofore using the best IT resources available to the agency.

For a plant in hearing the license renewal review is designed to be 30 months (normally 22 months without a hearing). With the application submitted on June 1, 2010, 30 months is December 2012.

A. Licensee Project/Status Track:

Major contractors involved MPR and SG&H (budget and resources)

1. (COMPLETE) By 6/30, complete final OD using extent of conditions review – Control Building POD kept open, new one initiated for the five buildings involved in extent of conditions review.
2. By 8/13 (actual 8/11), response to Structures Monitor, Containment, and SFP Building RAIs – they will be negotiating IOUs with DLR PM upon his return 7/16.
3. By 9/30, complete final OD for those open above (in jeopardy in light of technical questions asked by DLR and DE to date)

• SIMPLIFY
700 many tracks

• INCLUDE A SECTION FOR
KEY COMPLETED ACTIONS
– INSPECTORS
– PLUMBERS
– COMMS

(SEE ATTACHMENT 1
FOR A LIST OF COMPLETED
ACTIONS)

Information in this record was deleted

in accordance with the Freedom of Information

Act, exemptions

FOIA

2012-0119
Outside of Scope

9/6

Out of Scope

Outside of Scope

outside of scope

B. NRC Operability/Functionality Track:

Certain buildings may be in-scope of MR-LR and not safety related - design basis details need to be reviewed for all in-scope buildings effected by ASR.

1. ~~*~~ By 7/30, RI issue TIA – needs to be focused on licensee current view of operability for the control building in order to obtain a comprehensive set of issues to be address in the final ODs (current DE and RAI q's may be limited for now).

Outside of Scope

outside of scope

Outside of Scope

(3 pages)