Clark, Jeff

From: MATZKE, ERICK P [ematzke@oppd.com]
Sent: Tuesday, June 21, 2011 1:40 PM
To: Kirkland, John; Clark, Jeff
Subject: This may help .

To answer the NRC question on what we are doing long-term for the elevated flooding, I would recommend including all the enhancements FCS has included that is beyond our design basis:

1) Aqua Dams around PA and major buildings
2) Earthen berm in switchyard to protect off site power
3) Barriers around Security building
4) Additional pumps for dewatering areas
5) Redirecting roof drains exterior to berms
6) Elevating 13.8 KV on the site to support continued power to buildings and pumps
7) Brought in a Temporary 480 VAC DG with 480 VAC to 4160 Volt AC step up transformer
8) Brought in 2 tankers for addition 15,000 gallons of additional DG fuel
9) Elevated scaffolding for access to facilities (vice having to rely on boats)
10) Monitoring the conditions and make repairs as issues develop

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B/14

Nuclear Engineering Division
Site Recovery Plan

Issue	Lead Group	Point of Contact	Comment
Develop new Engineering Duty Team schedule – reduce Supervisor support staffing from 6 to 4.	System Engineering	Sudhir Kalra	Complete and implement by 7/5/11
Evaluate river flood flowpath through Site and determine if building foundations or security are challenged by erosion. If challenges are identified, propose mitigation methods.	Design Engineering	Kevin Hyde	Russ Placke to be assigned
Establish contingency plan for river levels greater than design bases and coping plans for loss of ultimate heat sink.	PRA	Alan Hackerott	Instructions will be developed as a supplement to existing AOP/EOP guidance. John Fickle from Operations to provide support.
1B4A fire Root Cause Analysis	System Engineering	Steve Clayton	RCA Team: Tom Bottum Mike Elzway Joe Zagata
1B4A recovery effort - Evaluate S&L recommendations and determine end state - Develop modifications to support recovery	Design Engineering	Chris Sterba	
Flood restoration - Equipment assessment - Equipment readiness plan - Idle equipment recommendations - Submerged cable plan - Work request development	System Engineering	Jay Cate	Cable support; Teddy Hutchinson
Flood restoration - Configuration Control - Permanent vs. temporary configuration changes	Design Engineering	Steve Swearngin	

Nuclear Engineering Division
Site Recovery Plan

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Flood restoration -Security system restoration logistics	Design Engineering	Chris Sterba	Coordinate with Bob Hopkins project. Support; Abe Noseir Adam McIntyre Scott Bunting
Flood restoration -Establish flood debris and sludge cleanup logistics -Cleanup project oversight	Nuclear Projects	John Brandeau	Will be handled as a Project activity. Engineering involvement may be necessary for equipment protection plan
Flood restoration -establish River level/river condition Trigger points for site restoration and reassembly of reactor	PRA	Alan Hackerott	Army Corps of Engineers Operations Work Management
Continuing support for Defense-in-depth strategies for SOPP, MRule(a)(4), Equipment Out of Service	PRA	Alan Hackerott	
Civil Engineering evaluation of Geotechnical impact of flooding -soil liquefaction -Stability of paved surfaces -Sand boil remediation	Engineering Programs	Ken Erdman	Enlist AE firm for technical support
Centralize river condition assessment, prediction and communications for site	System Engineering	Steve Clayton	Al Koenig Army Corps of Engineers Hydrologist