

PMLevyCOLPEm Resource

From: Habib, Donald
Sent: Friday, February 05, 2016 10:14 PM
To: Kitchen, Robert (robert.kitchen@pgnmail.com)
Cc: PMLevyCOLPEm Resource
Subject: Question regarding MCR Heatup

Bob –

We are preparing the MCR Heatup SER.

Can you please advise whether you or Westinghouse have any comments on the table below? It is based on your August 5 response letter.

Thanks
Don

	Scenario	response	Standby DG functionality	VBS functionality
1	Station Blackout	Rx trip, VES actuates 10 min after power loss, WPIS is deenergized 2 hours after power loss due to battery limit	None - Cannot be credited under definition of Station Blackout	VBS not functional, but after 72 hours, operators may be able to align the ancillary DG to the VBS fans
2	Loss of switchyard only (offsite power) with runback (rapid power reduction)	Rx pwr reduced to meet plant loads. VBS continues to operate.	Available but not needed	Fully functional
3	Loss of switchyard and TG trip	Rx trip, VES 10 minute timer starts. If DGs not functional then plant is in a station blackout condition	Standby DG starts and provides power to VBS system	Fully functional on power from standby DG.
4	Hi-2 radiation signal due to VES component failures.	Simultaneous, independent failures actuate VES and isolate VBS. If repairs unsuccessful WPIS de-energized by auto loadshed at 3 hours. Mode 3 required by T.S. in about 26 hours from VES actuation.	No impact, failures assumed to be independent of power supply	Following verification of plant condition, operators override VBS isolation and return system to service. VES in action statement pending repair/restoration of system.
5	VBS isolation occurs due to simultaneous,	Operator manually initiates VES. If VBS repairs unsuccessful	No impact, failures assumed	System is unavailable

	independent component failures	WPIS de-energized by auto loadshed at 3 hours. Mode 3 required by T.S. in about 26 hours from VES actuation.	to be independent of power supply	
6	LOCA with fuel failure and leakage from containment. Offsite AC available.	Rx trip, Hi-1 setpoint shifts VBS to recirc mode. VBS designed to maintain MCR doses below GDC 19 limits during DBEs.	Available but not needed	Fully functional
7	LOCA with fuel failure and leakage from containment. Offsite AC not available.	Rx trip, VES 10 minute timer starts, If DG not credited then plant is in a station blackout condition with LOCA.	Standby DG starts and provides power to VBS system, Hi-1 shifts system to recirc	Fully functional on power from standby DG.
8	LOCA with fuel failure and leakage from containment from adjacent plant.	Hi-1 setpoint shift VBS to recirc mode. VBS designed to maintain MCR doses below GDC 19 limits during DBEs.	Available but not needed	Fully functional
9	LOCA with fuel failure and leakage from containment from adjacent plant with concurrent, simultaneous, independent failure of two VBS recirculation trains on intact unit	Hi-2 actuates VES on intact unit. WPIS de-energized by auto loadshed at 3 hours. Mode 3 required by T.S. in about 26 hours from VES actuation.	No impact, failures assumed to be independent of power supply	System is unavailable

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