9/27/2013 **FINAL**

BUCKHORN STATION MATRIX Estimated startup date: 10/7/2013

				DATE	
ITEM	SOURCE	ACTION	DATE DUE	COMPLETED	COMMENTS
		Implement 2 IPL solutions. Consider installing a relief valve around the			
Ph I LOPA/PHA		receiver & launcher. Include flushing of dead leg when testing relief.			
Action Item 1	Ph I LOPA/PHA	Also, send status of relief to Tulsa controller.		2/25/2013	
Ph I LOPA/PHA		TSV-1, 2, 4 & 5 are existing and adequate. Move TSV-3 to relieve around			
Action Item 2	Ph I LOPA/PHA	G3 valve to protect this segment.		3/15/2013	
		Implement a 2 IPL solution. Consider using a check list to ensure all low			
		points are adequately drained. Complete the check list at least every 30			
		days during the winter months and/or when a hard freeze is expected			
Ph I LOPA/PHA		and add to PM schedule. Note: With a check list and PM schedule, 2			
Action Item 3	Ph I LOPA/PHA	layers of protection is credible.	8/23/2013	9/16/2013	
		Add bypass relief valves around each inline control valve to mitigate			
		secondary surges created when the station control valve closes due to			
Surge Analysis	Phase I surge	the station discharge pressure being exceeded when a downstream			
Action item 4	analysis	valve is closed (surge event).		2/26/2013	
		Implement a 2 IPL solution. Considerusing a check list to ensure all low			
		points are adequately drained. Complete the check list at least every 30			
		days during the winter months and/or when a hard freeze is expected			
Ph II LOPA/PHA	Phase II	and add to PM schedule. Note: With a check list and PM schedule, 2			
Action Item 1	LOPA/PHA	layers of protection is credible.	8/23/2013	9/16/2013	
		For LAHH-9000 with visible light and operator response to be credible,			
		consider adding a step to the maintenance procedures to function test			
Ph II LOPA/PHA	Phase II	the Liquids Recovery Sump Tank (SU-9000) High High level alarm light on			
Action Item 2	LOPA/PHA	LAHH-9000 before draining. See Dwg: 194-D-101, Sht 5 of 6 (1 IPL)	8/23/2013	9/18/2013	
		Consider revising the Receiver, Launcher, Strainer & Mainline Unit			
		Maintenance Procedures and LOTO Check sheets to include technician's			
		initials and final completion signature indicating all valves are placed in			
		the proper position prior to lining up to the Mainline. Keep these			
		completed procedures and LOTO checklist on file for one year. Have a			
		CMS task for an audit of the completed procedures & LOTO checklists			
Ph II LOPA/PHA	Phase II	annually. Discard previous year's completed procedures and LOTO			
Action Item 3	LOPA/PHA	checklists after the audit. (1 IPL)	8/23/2013	9/26/2013	
Pre-Mod	LOTA/FIIA	CHECKISCS after the addit. (1 IFL)	0/23/2013	4/3/2013 to	
Approvals	MOCR BK-13-001	Pre-mod approvals for MOCR BK-13-001		8/12/2013	
Operating	MICCU DK-13-001	Life-mod approvals for infoct pic-13-001		0/12/2013	
procedure					
modifications	MOCR BK-13-001	Modifications required per MOCR BK-13-001		9/27/2013	
mounications	INIOCU DV-12-001	Infomingations reduited het MOCK pk-12-001		3/2//2013	
Facility Integrity				7/1/2013 to	
Checklist	MOCP BK-12-001	PHA & LOPA performed in lieu of FIC		8/31/2013	
CHECKIIST	IAIOCU DV-12-001	FITA & LOFA PETIOTHEU III IIEU OI FIC		0/31/2013	

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	PSSR	MOCR BK-13-001	PSSR required per MOCR BK-13-001		9/27/2013	· '	
	roon	INIOCU DIC-TO-00T	P33K required ber MOCK BK-13-001		9/2//2013	· '	