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16918	RLOP	GRU	2009	2.1.3.1	Add E-1900 89PDI-019 to P&ID D-330308-12. Refer to MOC 18617.	Ensure appropriate personnel updates drawing as required	Drawing updated per MOC #18353.	Verified that D330308-13 is on the refinery web showing 89PDI019 across E1900	Storrs, Tim R.	7/12/2010	7/9/2010	6	A	Hulse, Benjamin	Completed
16919	RLOP	GRU	2009	2.1.3.1	Remove K-1900 Trisen controller from P&ID D-330307-16 or show as out of service.	Ensure appropriate personnel updates drawing as required	P&ID marked-up to show current field conditions and posted on MOC#22202.	P&ID Updated.	Seidiltz, Michael R.	7/9/2010	7/9/2010	6	A	Drach, Jacqueline R.	Completed
16920	RLOP	GRU	2009	1.1.1.1	Indicate 89AI-037 is out of service on P&ID D-330307-16	Ensure appropriate personnel updates drawing as required	P&ID marked-up to show current field conditions and posted on MOC#22202.	P&ID's Updated	Seidiltz, Michael R.	7/9/2010	7/9/2010	6	A	Drach, Jacqueline R.	Completed
16921	RLOP	GRU	2009	1.4.1.1	Show software link from V-1900 level to HV-023/024 on P&ID D-330307-16. Refer to MOC 16903.	Ensure appropriate personnel updates drawing as required	Drawing D-330307-19 has been updated to reflect MOC#16903.	The current D-330307-19 reflects the current control scheme for V1900 liquid level.	Boughner, Keith B.	5/19/2010	7/9/2010	7	A	Boughner, Keith B.	Completed
16922	RLOP	GRU	2009	4.1.2.1	Concern is that there is no alarm to indicate compressor K-1900 surge. Consider adding an alarm to notify operator of surge, e.g., amp deviation alarm.	Consider adding an alarm to notify operator of surge.	MOC 22162 originated. Alarm developed from compressor curves. MOC completed through stage 2. Stage 3 is not required since no drawing updates are required. PED, Process Control, and IMI recommend refurbishing the anti-surge system if possible.	Alarm added.	Seidiltz, Michael R.	7/9/2010	7/9/2010	6	A	Bleckinger, Megan R.	Completed
16927	RLOP	GRU	2009	14.1.2.1	Concern is that there is no alarm to alert operators that C-1920 tray 4 temperature is dropping. Consider adding an alarm to the existing 89TV-243 signal.	Consider adding an alarm to the existing 89TV-243 signal. This recommendation applies to scenarios 14.1.2.1 and 21.2.1.1	MOC 22096 PED recommends a low temperature alarm of 245F. 5 years of process data reviewed to determine this lower limit. MOC completed through Stage 2. Stage 3 is not required since no drawing need to be updated	Alarm added.	Seidiltz, Michael R.	7/9/2010	7/9/2010	9	S	Bleckinger, Megan R.	Completed
16929	RLOP	GRU	2009	22.1.1.1	Concern is that 89FC-309 is not mentioned in EOM (Chapter 5, Normal Operations) Add 89FC-309 description and use to EOM Chapter 5.	Add 89FC-309 description and use to EOM Chapter 5.	Added 89FC309 to EOM in Vol.#1, chapter5 Page 14. (GRUPE05.DOC)	89FC309 added to EOM.	Seidiltz, Michael R.	3/22/2010	7/9/2010	9	E	Henrickson, Alan C.	Completed

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16932	RLOP	GRU	2009	4.1.2.1	Remove K-1900 Trisen controller from P&ID D-330310-11 or show as out of service.	Ensure appropriate personnel updates drawing as required	P&ID marked-up to show current field conditions and posted on MOC#22202.	Drawings are updated.	Seiditz, Michael R.	7/9/2010	7/9/2010	6	A	Drach, Jacqueline R.	Completed
16933	RLOP	GRU	2009	3.2.1.1	89FC-042 low flow alarm does not show in EOM alarm list	Add alarm to EOM	Added 89FC042 to alarm list in Vol.#1, Chapter 3 safety information Page 16(GRUPE03.DOC)	Added 89FC042 alarm to EOM.	Seiditz, Michael R.	3/22/2010	7/9/2010	7	S	Henrickson, Alan C.	Completed
16934	RLOP	GRU	2009	6.1.3.1	P-1903/A APS does not show on P&ID D-330701-11. Consider adding P-1903/A APS to P&ID.	Consider adding P-1903/A APS to P&ID.	the P&ID is correct as is. These pumps do not APS and here is how I know... (1) I had the operator kill the primary pump and the backup did not APS even though the min flow controller saw zero flow. (2) The motor elementary diagrams show a basic three wire on/off control. I confirmed there is no HOA in the field. (3) The min flow control loop drawing does not show APS in the field. (4) The CSA confirmed the DCS does not contain logic to APS these pumps.	P&ID is correct as currently shown - no P1903/A APS	Storrs, Tim R.	7/12/2010	7/9/2010	9	A	Sorley, Andrew P.	Completed
16935	RLOP	GRU	2009	8.1.2.1	P&ID D-330700-14 shows alarm on 89FI-073 where there is none. Correct P&ID D-330700-14, remove alarm on 89FI-073	Correct P&ID D-330700-14, remove alarm on 89FI-073	P&ID marked-up to show current field conditions and posted on MOC#22202.	P&ID Updated	Seiditz, Michael R.	7/9/2010	7/9/2010	8	S	Drach, Jacqueline R.	Completed
16936	RLOP	GRU	2009	13.5.1.2	Concern is that there is no alarm to alert operators that the GRU pump seal flush temperature is increasing. Consider adding an alarm to the existing C-1910 lean oil temperature input signal, 89TI193	Consider adding an alarm to the existing C-1910 lean oil temperature input signal, 89TI193	Lean oil is the seal oil in the RLOP GRU. Using PRO-II, the lean oil (DC4 bottoms) flash temperature (or temperature needed generate vapor) was determined at 200 PSIG. The Lean oil must be hotter than 381F to generate vapor @ 200 PSIG. The debutanizer (C-1920) bottoms temperature is ~325F at 135 PSIG or 56F cooler than the Flash temperature. Since vapor will not be present in the Seal Oil the alarm is not necessary.	Yes. An alarm is not necessary under normal operating conditions as stated above.	Seiditz, Michael R.	6/29/2010	7/9/2010	6	S	Bleckinger, Megan R.	Completed

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16937	RLOP	GRU	2009	19.1.1.1	Concern is that EOM chapter 5 on C-1920 overhead pressure control does not agree with the P&ID D-330708-15. Review current control system design and update P&ID and/or EOM	Review current control system design and update P&ID and/or EOM	Updated C-1920 pressure control information in EOM. Vol#1 Chapter 5.Page 14(GRUPE05.DOC)	EOM Updated.	Seidiltz, Michael R.	3/22/2010	7/9/2010	7	S	Henrickson, Alan C.	Completed
16939	RLOP	GRU	2009	9.2.3.1	Concern is that COD tables have incorrect low limit for 89PC-175 and inaccurate comment regarding 20 Plant. Correct COD tables to show correct low limit for 89PC-175 and remove comment regarding 20 Plant.	Correct COD tables to show correct low limit for 89PC-175 and remove comment regarding 20 Plant.	Updated EOM verbiage including incorrect low limits and inaccurate 20 plant information. Vol#1 COD(GRUCONN.DOC)	Updated EOM COD table.	Seidiltz, Michael R.	3/22/2010	7/9/2010	10	A	Henrickson, Alan C.	Completed

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16940	RLOP	GRU	2009	40.12.1.1	D-330308-12: Location of spec break at HPBFW. Is there a blind at flange location? D-330700-14: AF1 pipe class on P-1909A discharge D-330701-11: Spec break location on HP Stripped Water. Is there a blind at flange location? D-330703-10: Confirm that Z5 pipe class is suitable for instrumentation on V-1911A/B D-330707-10: J1 spec on butane from LV-19601, break should be upstream of valve D-330708-15: Confirm spec break location on stripped water to LT-303 D-330709-13: No spec break shown on gasoline instrument test line D-330718-10: AF4 class at LV-425 should be AF6 D-330721-12: Caustic piping bottom of V-1936 not stress-relieved (should be AF8?) D-330723-10: Spec break on stripped water should be at blind D-330723-10: Show location of spec break at FV-491 D-330723-10: Confirm pipe class as E3 for sour water from LV-19488 and V-1932 D-330730-11: Spec break on N2 to bottom of V-1941/1942 is reversed D-330316-11: Stripped water flange should have blind D-330316-11: Utility connection	Ensure appropriate personnel updates drawing as required	D330308 - No action: There is no blind and there doesn't need to be. Piping and drawing okay as-is. D330700 - Drawing updated per MOC 22311 D330701 - No action: There is no blind and there doesn't need to be. Piping and drawing okay as-is. D330703 - No action: All piping to V-1911A/B is Z5 pipe class, except bottoms piping which is Z4. So long as there is no history of valve failure, Z5 is appropriate for instrument piping. D330707 - Drawing updated per MOC 22311 D330709 - Drawing updated per MOC 22311 D330718 - Drawing updated per MOC 22311 D330721 - No action: This piping circuit operates at the borderline for requiring PWHT to protect it from caustic SCC (operating conditions used for analysis = 20 degBe caustic @ 180F for 12 hour intervals about 4 times per month). So long as there is no history of reliability issues due to caustic SCC in this piping, PWHT is not required. D330723 - Drawing updated per MOC 22311. (SSW spec break and E3 pipe class for line from V-1932 both okay as-is. Only updated spec break at FV-491). D330730 - Drawing updated per MOC 22311 D330316 - No action: No additional blinds or valve upgrades required. While new installations would most likely be different (per RI-503), there is no need to upgrade any of the connections identified on this	Drawing updates complete.	Seiditz, Michael R.	8/2/2010	7/9/2010			Hulse, Benjamin	Completed

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					valves should be Q1 D-330318-13: Block valve on line 19BD108 should be Q1		PHA. Based on max operating pressures and existing valves, there are no backflow concerns. D330318 - Drawing updated per MOC 22311.								
16941	RLOP	GRU	2009	40.13.1.1	The electrical system discussion in Chapter 7 of Volume 1 refers to the RLOP Emergencey generator which no longer exists. Update this section with current electrical system information	Update Section 7 with current electrical system information	Removed all Emergency generator references from LNC,HNC and GRU Vol.#1, Chapter7, Utilities pages.All other electircal information retained.	References removed from manual.	Seiditz, Michael R.	3/22/2010	7/9/2010			Henrickson, Alan C.	Completed
16942	RLOP	GRU	2009	35.1.2.1	Concern is that there is no high pressure alarm on K-1960 1st Stage suction Consider adding high pressure alarm on 89PV-702	Consider adding high pressure alarm on 89PV-702 This recommendation applies to scenarios 35.1.2.1, 35.2.1.2, and 35.2.4.1	MOC 21829 High limit recommeded at 27.7 PSIA per IMI MOC Completed to Stage 2. Stage 3 not required since no drawings need to be updated	Alarm added.	Seiditz, Michael R.	7/9/2010	7/9/2010	8	S	Bleckinger, Megan R.	Completed
16944	RLOP	GRU	2009	35.1.1.1	Concern is that there is no low pressure alarm on K-1960 1st Stage suction Consider adding low pressure alarm on 89PV-642	Consider adding low pressure alarm on 89PV-642	MOC 21829 Low limit 13 pSIA (Same as listed on COD table) High limit is 27.7 PSIA per IMI MOC complete to stage 2. Stage 3 not required since no drawings need to be updated.	COD table updates	Seiditz, Michael R.	7/9/2010	7/9/2010	9	A	Bleckinger, Megan R.	Completed
16945	RLOP	GRU	2009	30.4.1.1	Concern is that the only low flow alarm on tempered water is 89FC745. Consider adding an alarm to the existing 89FI-747 measurement to provide an independent alarm.	Consider adding an alarm to the existing 89FI-747 measurement to provide an independent alarm.	MOC 21830 cancelled. Upon further review with Process Control, Process Engineering, and Operations, the Min flow, TC alarms, and V-1965 Low level alarm are adequate for warning of tempered water circulation.	I agree with this evaluation.	Seiditz, Michael R.	7/9/2010	7/9/2010	7	A	Bleckinger, Megan R.	Completed
16946	RLOP	GRU	2009	21.2.1.2	Concern is that the C-1920 recycle control valve, 89FV-239, is not properly sized for the current operating conditions. The valve operates at 5% output at the current flow rates Consider changing the control valve trim/size to suit the current operating conditions.	Consider changing the control valve trim/size to suit the current operating conditions.	C-1920 Reflux control Valve (89FC239) is >10% open. >10% valve position is considered to be controllable.	Operating at 5% is considered normal operation and not a concern during normal operation or emergency.	Seiditz, Michael R.	6/29/2010	7/9/2010	6	A	Bleckinger, Megan R.	Completed

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