SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review

- [ ] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affects
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [x] Determine level of training
- [ ] Training has been scheduled
- [x] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify | Notify Log

MOC Number: 20163

Completed On: 4/13/2009

Completed By: Slaughter, Joseph M. | Signature

Person Responsible: Norris, Paul

Confidential Business Information

Project/Equipment Title:

F-100 O2 67AI100A DCS Low Alarm Setpoint and relocation of Damper Control

Summary of Review:

Air leakage into heater gives false high operating indications. O2 is normally contolled at 5%. Low alarm point is currently set at 2%. This MOC will increase the "high priority" low alarm to 4%. After restart of the unit, operations and PED will reset the low alarm setpoint using the newly installed CO analyzer to determine low O2 conditions at the burners. A permanent MOC will be issued at that time.

To assisted in maintaining O2 levels in the furnace, the chain used for Damper position control hase been relocated to the second deck on the southern side of F-100. Please be advised that the damper control is much easier than in it's previous location. Care should be taken when changing the position of the damper.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	All	20163	4/13/2009 4:54:27 PM	JSPS

Record 2 | Last | Search

138

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify Log

Notify

MOC Number: 20147

Completed On: 4/28/2009

Completed By: Norris, Paul | Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

IREC 79856 - Thin Piping from CUI on 2" 150# Steam Line to C-100 (0401-026-003) - Operate below throwaway flag thickness but above Tmin

Summary of Review:

The 150# steam piping was found using RT by OSI to be at or below .10" thick due to CUI. Refinery
throw away thickness for this piping is .10". The drawing number is 0401-026-003. Operations was informed of the thin pipe and engineering has performed structural T-mins.
The insulation is being removed to determine extent of CUI. The structural T-mins were performed and with the use of
staging on the steam out line to C-100 we are above T-min.

Line repairewill be done on the SDA S/D 5/23/09 using REC-79856 (TAW# 11437)

The piping is not normally in use but is necessary for cleaning up the column during SD. Therefore, the main concern would be associated to any safety issues that could arise if the line was to fail during clean up.

However, with the temporary supports, the analysis indicates that failure possibilitieshave been mitigated.

This piping will be replaced in kind during the upcoming May 09 shutdown

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20147	4/28/2009 8:50:38 AM	PNOR

Record: [illegible] | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affecte
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20149

Completed On: 4/28/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

IREC 79856 - Thin Piping from CUI on 2" 150# Steam Line to C-122 (0401-026-007) - Operate below throwaway flag thickness but above Tmin

Summary of Review:

The 150# steam piping was found using RT by OSI to be at or below .10" thick due to CUI. Refinery
throw away thickness for this piping is .10". The drawing number is 0401-026-007. Operations was informed of the thin pipe and engineering has performed structural T-mins.
The insulation is being removed to determine extent of CUI. The structural T-mins were performed and we are above T-min.

Line repairewill be done on the SDA S/D 5/23/09 using REC-79856 (TAW# 11437)

The calculated T-min of the pipe on the elbow was 0.0162" with no additional supports needed. This elbow should be replaced during the next turnaround. The corrosion seems to have been external from CUI. The new pipe should be coated before being reinsulated.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20149	4/28/2009 8:17:46 AM	PNOR

Record | Of | Filter | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify Log

Notify

MOC Number: 20148

Completed On: 4/28/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

IREC 79856 - Thin Piping from CUI on 2" 150# Steam Line to C-103 (0401-026-005) – Operate below throwaway flag thickness but above Tmin

Summary of Review:

The 150# steam piping was found using RT by OSI to be at or below .10" thick due to CUI. Refinery
throw away thickness for this piping is .10". The drawing number is 0401-026-005. Operations was informed of the thin pipe and engineering has performed structural T-mins.
The insulation is being removed to determine extent of CUI. The structural T-mins were performed and we are above T-min.

Line repairewill be done on the SDA S/D 5/23/09 using REC-79856 (TAW# 11437)

Line is used to steam out column during shutdown. Main impacts if lost 150# steam would be safety concerns and clean abilities for column.

Will operate below throwaway thickness during cleanup of plant for May 09 SD, but line has been added in as EW for replacement during SD. It should be coated after replacement prior to reinsulation.

The calculated T-min of the pipe on the elbow was 0.0300" with no additional

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20148	8/5/2009 10:36:49 AM	PNOR

Record | 1 of 1 | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
    - BUT
    - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (finalize mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify Log

Notify

MOC Number: 20280

Completed On: 5/11/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

C-100, C-103, C-122, P-153, V-153B Steam CUI Replacement

Summary of Review:

A block valve and flange will be added to the steam to V-153B. Also an unused steam tracing valve will be removed from C-122. All work is per pipe class AB0. None of this work is shown on P&ID's as it is part of the 150# steam system.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20280	5/11/2009 6:31:42 AM	PNOR

Record: 1 of 1 | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [x] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

View Sender

ABU	Crew	MOC NO	Sent On
South Isomax	OWS#2	20343	5/21/2009 2:13:02
South Isomax	OWS#1	20343	5/21/2009 2:12:54
South Isomax	WPIA	20343	5/21/2009 11:10:17
South Isomax	AO-4	20343	5/21/2009 11:09:57
South Isomax	AO-3	20343	5/21/2009 11:09:51
South Isomax	AO-2	20343	5/21/2009 11:09:33
South Isomax	AO-1	20343	5/21/2009 11:09:17

Record: 1 of 7 | Search

MOC Number: 20343

Completed On: 5/21/2009

Completed By: Cabrera, Jaime | Signature

Person Responsible: Cabrera, Jaime

Project/Equipment Title:

H2 Booster K-910 Electrical Feeder Repair

Summary of Review:

The changes made to the existing system was the size, routing, and type of feeder cable.

The existing U/G duct bank was compromised after the fault and could not be re-used for a re-pull. The new installation is made up of a 1,045 foot run of 500MCM CLX MC-HL (armored) 3/C Okonite cable spanning from 2 Sub to MK-910 motor via over head route. The drop from the cable tray at k-960 goes under the compressor deck sitting a concrete birm pony wall. There are adhesive markers ientifying the cable showing is 12000volts and high voltage as well as yellow tensil plates spread over 10 foot or so intervals.

The CLX cable has a pink overall jacket.

This traingin was ent via "mailing Group" and used Outlook to send to I&E Shops

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication/Review:

- [x] Identify the affected employees
  - Operation, Maintenance, Technical, and Contractors affecte
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUI
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow daigrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20085

Completed On: 6/8/2009

Completed By: Norris, Paul

Signature

Person Responsible: Slaughter, Joseph M.

Project/Equipment Title:

SDA Motor Control Center 1 and 2 Replacement

Summary of Review:

The existing motor control centers which feed the SDA are nearing their end of life and is becoming more difficult to obtain spare parts. This MOC covers the replacement of the MCCs along with not reconnecting out of service motors at SDA. The new MCCs will have spare buckets available that can feed these and new electrical loads and the need arrise. There will also be significant changes to the alarming and monitoring capabilities for these motors provided by a new devicenet card that is being installed at 67PLC02 which is also covered in this MOC.

The existing motor control centers for plant 1 the SDA will be replaced during the 2009 SDA shutdown. All existing motors/loads fed by MCC1 and 2 will be fed by the new MCC and these wil be located at the same spot. The new MCCs will use Devicenet communication technology which will allow for a greater amount of information to be easily sent to the operating plant regarding the status and condition of the motors. These new alarms will be documented on updated P&IDs.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20085	6/8/2009 5:25:44 AM	PNOR

Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affects
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20310

Completed On: 6/22/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

Automate stack dampers for F-100/120

Summary of Review:

The stack dampers for F-100/120 currently are manual controlled via chains. This project will replace the chains with cables and install damper automation assemblies. Dampers can thus be controlled from the house.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20310	6/22/2009 6:20:13 AM	PNOR

Record: 1 of 1 | No Filter | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review

- [ ] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affects
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [x] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20479

Completed On: 6/24/2009

Completed By: Meehan, John J.

Signature

Person Responsible: Meehan, John J.

Project/Equipment Title:

SDA: E-150A/B/C/D bundle replacements

Summary of Review:

There were no operational changes to the exchangers that would require training or changes to the EOM.

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [ ] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [x] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify Log

Notify

MOC Number: 20445

Completed On: 6/24/2009

Completed By: Meehan, John J.

Signature

Person Responsible: Meehan, John J.

Project/Equipment Title:

C100 Packing Metallurgy Change (1a/1b)

Summary of Review:

No additional training required, no affect on operation of the plant

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [ ] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [x] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20399

Completed On: 6/24/2009

Completed By: Meehan, John J.

Signature

Person Responsible: Meehan, John J.

Project/Equipment Title:

SDA: Replace 3/4" drain valve upstream of FC2533 with 1" drain valve.

Summary of Review:

Communication only training, no affect on operations

Sign Off Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical and Contractors affected.
  - Employees who will require training to start up the change based on the level of training.
  - Employees who will receive training after the start up.
  - Before they perform work affected by the change.
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, markups)
  - Flowdiagrams (final or markups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change.

ABU: South Isomax

Mailing Group:

Notify | Notify Log

MOC Number: 20385

Completed On: 6/24/2009

Completed By: Norris, Paul | Signature

Person Responsible: Norris, Paul

Project/Equipment title:

Install new flanges on 10" inlet to E-150's

Summary of Review:

New 10" flanges will be added on the inlet piping header to the E-150's. This flange pair needs to be installed to facilitate the replacement of all four of the E-150 units as well as to facilitate the flange upgrade work that is occuring on the E-150's (work instructions are covered by S/D EWO# CD460-E1).
Operations is currently having trouble cleaning the 10" header sufficiently for hot work to occur. This flange pair will allow us to use isolation tools and hydrotest tools to complete the necessary hot work.
This work does not involve any new pipe supports.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20385	6/24/2009 5:20:38 AM	PNOR

Record: 1 of 1 | No Filter | Search

Sign Off Sheet | PSI | Return | Print

Stage 1 Training and Communication Review

- [x] Identify the affected employees
  - Operation, Maintenance, Technical, and Contractors affected
  - Employees who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BEF
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/trainer)
- [ ] Identify the affected employees
  - Lesson plan cover sheet (includes training objectives/intent and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained (marked) to start up the change

ABU: South Isomax

Mailing Group:

Notify Ops | Notify

MOC Number: 20277

Completed On: 7/7/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

Temporarily disconnect one of two Trabon lube oil to lines to K-920 #1 Cylinder Pressure Packing Box.

Summary of Review:

The Piston Rod Packing is designed to receive 0.8 pints per day of lubrication. By temporarily plugging one of the two lube ports to the packing, the wear rate will increase. Unfortunately, this increase in wear rate can not be easily quantied because of many variables.

However, the operators can easily monitor the condition of the packing by checking the temperature of the packing vent (which is already a routine duty). As the packing wear increases, you can expect the temperature of the vent pipe to increase.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	All	20277	7/7/2009 5:28:22 AM	PNOR

Record 1 of 1 | Search

SignOffSheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affecte
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [x] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify Log

Notify

MOC Number: 20435

Completed On: 7/9/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

Hot Tap: Installation of three thermocouples on furnace tubes of F-135

Summary of Review:

MOC notification will inform Operations of the repair and addition of thermocouples.

Three new thermocouples will be installed during the Q2 2009 SDA shutdown. These will replace three broken ones and allow for proper monitoring of the furnace temperature.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20435	7/9/2009 8:50:30 AM	PNOR

Record: 1 of 1 | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affecte
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - OUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change.

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20222

Completed On: 7/9/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

Modify Piping to Accommodate New PRD's (IX-167 & IX-177)

Summary of Review:

New flanges will be added on the inlet and outlet piping to IX-167 and IX-177 to facilitate the current and any future PRD replacements.

The set pressure for IX-167 needs to be changed from 445 PSIG to 275 PSIG. This set pressure is per the P-153 SIS. The set pressure on IX-177 needs to be changed from 275 psig to 445 psig. At some point in the past, these two PRD's were accidentally switched in the field and their set pressures mixed up. This change is to correct drawings and 705A forms to make everything consistent.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20222	7/9/2009 7:56:25 AM	PNOR

Record: 1 of 1 | No Filter | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review

- [ ] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affects
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [x] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20556

Completed On: 7/20/2009

Completed By: Johnson, James E. Signature

Person Responsible: Johnson, James E.

Project/Equipment Title:

SDA Asphalt Stripper C-123 / 67LI123A

Summary of Review:

No Changes necessary to the EOM

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20556	7/20/2009 11:44:29 AM	JEJJ

Record: 1 of 1 | Filter | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20588

Completed On: 7/29/2009

Completed By: Johnson, James E. Signature

Person Responsible: Johnson, James E.

Project/Equipment Title:

"Old Side" Piping Modifications

Summary of Review:

These are some of the Upgrades and or Piping Modifications that the 9PLT Booster S/D is goiong to acomplish.

Allow on-the-run V-910 inspection by installing an isolation valve on its outlet line. Allow isolation of "old" Stage-1 spillback control valve manifold without interrupting flow to SHU/TAME by installing an isolation valve in the spillback line. Remove existing dead legs from pipe rack by converting a tee in the HEL line into a 90-deg bend, and installing blinds at existing flanges on the K-930/40 Stage 1 discharge sub-header. Provide tie-ins for potential future on-the-run system modifications by installing valved tie-in branches on the V-911 relief line and the "old side" of the Stage-2 suction header.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-4	20588	7/29/2009 9:01:43 AM	JEJJ

Record: 1 of 1 | No Filter | Search

Sign Off Step | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the Start up BUT
  - Before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify | Notify Log

MOC Number: 20111

Completed On: 7/30/2009

Completed By: Johnson, James E. | Signature

Reason Responsible: Johnson, James E.

Project/Equipment Title:

Enter Selenium filter dP into IntelaTrac

Summary of Review:

Reason for MOC:

We must be able to track the selenium filter dP so they can be changed at the appropriate time. There are pressure gauges on the inlet and outlet of the filter, and these two readings should be entered into IntelaTrac. The frequency of the readings should be once a shift. The filters bags need to be changed when pressure drop reaches between 20 psi.

View Sender

ABU	Group	MOC No.	Sent On	Sender
South Isomax	AO-4	20111	7/30/2009 10:29:38 AM	JEJ

Record: 1 of 1 | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan corer sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify Log

Notify

MOC Number: 20652

Completed On: 8/4/2009

Completed By: Johnson, James E. Signature

Person Responsible: Johnson, James E.

Project/Equipment Title:

Install New PRD to Protect V-910

Summary of Review:

The purpose of this MOC is to perform piping modifications to relocate IX-919 to the bypass piping due to a discovered block valve that would not hold upon shutdown. The new IX-919 will have a de-rated set pressure of 285 psig.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-4	20652	8/4/2009 11:19:09 AM	JEJ

Search

SignOff Sheet | PSI | Return | Print

Stage 1 to Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - ABU
  - before they can perform work affected by the change
- [ ] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees:
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20379

Completed On: 8/6/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

New alarm for 66PI1055

Summary of Review:

A new alarm for 66PI1055 at 9 inH2O was initiated on a temporary basis and is being modified to permanent after being evaluated by PE and operations. The purpose of the alarm is to give a system evaluation alarm at 9inH2O before the 12.5inH2O high alarm is tripped. The system alarm will act as an early indication to load compressors and/or to evaluate FGR to see how to reduce increase in pressure.

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20379	8/6/2009 5:54:11 AM	PNOR

Record: 1 of 1 | Search

SignOffSheet | PS | Return | Print

Stage Two Training and Communication Review

- [ ] Identify the affected employees.
  - Operation, Maintenance, Technical, and Contractors affecte
  - Employee who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - BUT
  - before they can perform work affected by the change
- [x] Procedures have been modified/written (Ops/SSO/Trainer)
- [ ] Identify the affected employees.
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, mark-ups)
  - Flow diagrams (final or mark-ups)
- [x] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Notify Log

MOC Number: 20208

Completed On: 8/17/2009

Completed By: Canter, Daniel K.

Signature

Person Responsible: Canter, Daniel K.

Project/Equipment Title:

Cooling Water PRD's, IX-920, IX-921 & IX-930 Replacement

Summary of Review:

Replaced in kind no training necessary

Sign Off Sheet | PSI | Return | Print

Stage Two Training and Communication Review

☑ Identify the affected employees:
- Operation, Maintenance, Technical and Contractors affected
- Employee who will require training to start up the change based on the level of training
- Employees who will receive training after the start up

BUT

before they can perform work affected by the change

☐ Procedures have been modified/written (Ops/SSO/Trainer)

☐ Identify the affected employees:
- Lesson plan/cover sheet (includes training objective statement and list of affected employees)
- Procedural changes (Standing Orders, mark-ups)
- Flow diagrams (final or mark-ups)

☐ Determine level of training

☐ Training has been scheduled

☐ Affected employees have been trained in order to start up the change

ABU: South Isomax

Milling Group:

Notify Log

Notify

MOC Number: 20772

Completed On: 9/21/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

Decommission South Isomax "Utility" Nitrogen Tank System & Tie Together RLOP, NISO, & SISO N2 Systems

Summary of Review:

SISO N2 flow test was completed to ensure that SISO Utility N2 tank can be removed and "will not have a major effect on total system inventory or deliverable flow" (see attached presentation showing RLOP/NISO/SISO N2 system in PSI tab) as long as NISO crossover valve opened.

The South Isomax Utility Nitrogen tanks will be decommissioned for the following reasons, and South Isomax nitrogen system will be tied into the RLOP and North Isomax nitrogen systems:
- Low temperature Utility nitrogen tank shutdown not up to current code
- Utility Nitrogen tank fill line is inside plant boundaries, and there is not sufficient instrumentation at the fill line to prevent overfills.
- Air Products and operations performed a test run to verify that the nitrogen system hydraulics support decommissioning the Utility Nitrogen tank (reference temporary MOC 19819)

Note, carbon copy MOC's will be created for RLOP and North Isomax to capture changes respective changes to their nitrogen systems (reference 20773 & 20774, respectively)

View Sender

ABU	Group	MOC NO	Sent On	Sender
South Isomax	All	20772	9/21/2009 9:36:43 AM	PNOR

Record: 1 of 1 | Search

SignOff Sheet | PSI | Return | Print

Stage Two Training and Communication Reviews

- ☑ Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employees who will require training to start up the change based on the level of training
  - Employees who will receive training after the startup
  - Staff
- ☐ Procedures have been modified/written (Ops, SSO, Trainer) before they can perform work affected by the change
- ☐ Identify the affected employees:
  - Lesson plan cover sheet (includes training objectives statement and list of affected employees)
  - Procedural changes (Standing Orders, markups)
  - Flow diagrams (final or markups)
- ☐ Determined level of training
- ☐ Training has been scheduled
- ☐ Affected employees have been trained in order to startup the change

ABU: South Isomax

Mailing Group:

Notify | Notify Log

MOC Number: 20862

Completed On: 10/6/2009

Completed By: Johnson, James E.

Person Responsible: Johnson, James E.

Signature | Date

Project/Equipment Name:

Abnormal Uncut Tar Sampling from C103 Tricocks

Summary of Review:

The SDA unit has to occasionally do drum sampling of uncut tar. There is no sample station to do the drum style samples; however, the tricocks off of the Asphalt Stripper, C103, can be utilized to grab this sample with minor modificatioons. This MOC is being put in the system as a way to establish the temporary MOC's that can be used to do this sampling on a nonroutine basis

This Temp. MOC will have a Job aid for the sampling.

View Sender | OK

ABU	Group	MOC NO	Sent On	Sender
South Isomax	AO-1	20862	10/6/2009 12:48:26 PM	JEJJ
South Isomax	AO-1	20862	10/6/2009 12:47:27 PM	JEJJ

Record: 1 of 2 | No Filter | Search

Suggested Training and Communication Review:

- [x] Identify the affected employees:
  - Operation, Maintenance, Technical, and Contractors affected
  - Employees who will require training to start up the change based on the level of training
  - Employees who will receive training after the start up
  - Before they can perform work affected by the change
- [ ] Procedures have been modified or written (Ops/SSO/Trainer)
- [ ] Identify the affected employees
  - Lesson plan cover sheet (includes training objective statement and list of affected employees)
  - Procedural changes (Standing Orders, manuals)
  - Flow diagrams (final or markups)
- [ ] Determine level of training
- [ ] Training has been scheduled
- [ ] Affected employees have been trained in order to start up the change

ABU: South Isomax

Mailing Group:

Notify

Sign Off Sheet | PSI | Return | Print

MOC Number: 20488

Completed On: 10/8/2009

Completed By: Norris, Paul

Signature

Person Responsible: Norris, Paul

Project/Equipment Title:

E-921 Heat Exchanger Bundle change in Metallurgy

Summary of Review:

Metallurgical upgrade, SIS sheet updated.

Tubes: SA-789-205 Duplex
Tubesheet: SA-240-S31803
Carcass: 316L Stainless Steel

No additional training required, no affect on operation of the plant