

516
WRITTEN BY: WFS
APPROVED BY: M.G.
DATE: 5/27/88

SOP # 5602-039.SOP
OHC REACTOR MASTER KEY BYPASS PROCEDURE

CHECK	ACTION STEPS (Capital letters) and Comments (Small letters)
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BYPASS OF THE OHC REACTOR SHUTDOWN SYSTEM IS FOR MAINTENANCE ONLY.

1. THE OHC OPERATOR OR OHC LEAD OPERATOR IS INFORMED OF A NEED TO BYPASS THE OHC REACTOR SHUTDOWN SYSTEM.
 - A. Prooftesting the shutdown system, zeroing transmitters, repairing transmitters, thermocouples, etc.
2. THE OHC LEAD OPERATOR IS THEN RESPONSIBLE FOR MAKING THE DECISION TO BYPASS THE REACTOR SHUTDOWN SYSTEM.
 - A. The OHC lead operator or operator will then key the reactor shutdown system.
 - a. The bypass keys are to remain in the key holder on the wall until needed.
3. THE OHC LEAD OPERATOR OR OPERATOR WILL THEN NOTIFY THE FOREMAN OR SHIFT SUPERVISOR OF THE BYPASSING OF THE SHUTDOWN SYSTEM.
4. THE OHC LEAD OPERATOR OR OPERATOR WILL WRITE DOWN IN THE SHUTDOWN SYSTEMS BYPASS LOG BOOK THE TIME, DATE, AND THE REASON FOR THE BYPASS OF THE SHUTDOWN SYSTEM.
5. THE OHC LEAD OPERATOR OR OPERATOR MUST REMAIN IN FRONT OF THE OHC CONTROL PANEL AS LONG AS THE REACTOR SHUTDOWN SYSTEM IS BYPASSED.
6. WHEN MAINTENANCE IS FINISHED WITH THE REPAIRS TO THE SHUTDOWN SYSTEM, THE KEY MUST BE RETURNED TO THE KEY HOLDER ON THE WALL.

SL 003941

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of 14th Judicial District Court
No. 91-1145

WRITTEN BY: FSN
APPROVED BY: MJF
REVISED: 7/92

5602-040.SOP
REACTOR ISOLATION AND TAGGING CHECKLIST

CHECK	ACTION STEPS (Capital letters) and Comments (Small letters)
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REACTOR #_____ ISOLATION AND TAGGING CHECK LIST

DATE:_____/_____/_____

THE INTENT OF THE TAGGING PROCEDURE IS TO ALLOW MAINTENANCE TO HAVE READY ACCESS TO DUMP OR CHARGE THE REACTOR. ONLY THE IMMEDIATE INLET AND OUTLET (PROCESS SIDE ONLY) BLOCK VALVES ARE INCLUDED. AUXILIARY EQUIPMENT (PREHEATERS, XCEL THERM SYSTEM, COOLING TOWER WATER SIDE OF CONDENSERS, etc.) ARE NOT CONSIDERED PART OF THE UNIT CLEARANCE AND WILL CONTINUE TO BE TAGGED WITH WHITE "DO NOT OPERATE" TAGS.

IF DURING THE SHUTDOWN AND TAG OUT PROCEDURE, IT IS NOT POSSIBLE TO ISOLATE AS REQUESTED, (i.e., A VALVE WON'T OPERATE) THE UNIT CLEARANCE PROCEDURE CAN STILL BE PUT IN EFFECT IF THE LINE IS PROPERLY TAGGED OUT AT ANOTHER LOCATION. THIS MUST BE NOTED AS SUCH ON THE FORM. FOR EXAMPLE, THE DOWN STREAM HCL FCV BLOCK VALVE WILL NOT CLOSE, SO THE UPSTREAM VALVE IS BLOCKED INSTEAD.

THE UNIT CLEARANCE WILL BE DONE IN TWO STAGES. THE FIRST STAGE WILL ALLOW FOR FLUIDIZATION AND FLUSH WATER TO BE IN USE WHILE THE CATALYST IS BEING DUMPED OR CHARGED. THE SECOND STAGE WILL ALLOW THE REACTOR HEAD TO BE LOWERED.

REACTOR TAGGING DAILY REVIEW

DATE

OPERATIONS FOREMAN

MAINTENANCE FOREMAN

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STAGE 1 - PRIOR TO DUMPING OR CHARGING

STAGE 1 TAGGING IS TO BE HUNG PRIOR TO DUMPING AND IS TO BE REMOVED AFTER CHARGING IS COMPLETE.

If it is not possible to isolate and tag the system as requested, the unit clearance can still be put in effect if the system can be isolated at another block valve or blinding location. If this occurs the variance between tagging requested and actual tagging must be noted on this form. Yellow unit clearance tags required.

OPERATIONS MAINTENANCE

SIGN SIGN
CHECK BELOW CHECK BELOW

GROUND LEVEL

HCL FCV DOWNSTREAM BLOCK VALVE
HCL FCV BYPASS
C2H4 BLOCK VALVE TO THE RECYCLE JET
RECYCLE BLOCK VALVE AT THE MIX FEED HEADER
O2 FCV DOWNSTREAM BLOCK VALVE
O2 FCV BYPASS

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

VARIANCE (IF ANY) _____

FIRST DECK

HCL PREHEATER INLET HCL BLOCK VALVE
HCL PREHEATER INLET NITROGEN BLOCK VALVE
BLOCK VALVE OUT OF C2H4 PREHEATER
BLOCK VALVE ON COMMON DEGASSER DRAIN LINE
DEGASSER INLET CROSSOVER VALVE (UNDER #5 DEGASSER)
KYNAR BLOCK VLV ON INLET TO BOTH ANALYZER COOLERS
(SOUTH HANDRAIL NEXT TO ANALYZER SHACKS)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

VARIANCE (IF ANY) _____

SECOND DECK

DEGASSER VENT CROSSOVER VALVE (OVER #5 DEGASSER)
DEGASSER LCV DOWNSTREAM BLOCK VALVE
DEGASSER LCV BYPASS
DEGASSER SAMPLE BLOCK VALVE

_____	_____
_____	_____
_____	_____
_____	_____

VARIANCE (IF ANY) _____

TOP DECK

SMALL PCV DOWNSTREAM BLOCK VALVE
SMALL PCV BYPASS
LARGE PCV DOWNSTREAM BLOCK VALVE
LARGE PCV BYPASS
PRIMARY MLS DOWNSTREAM BLOCK VALVE
PRIMARY MLS BYPASS

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

VARIANCE (IF ANY) _____

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STAGE 2 - AFTER DUMPING

STAGE 2 TAGGING IS TO BE HUNG ONLY AFTER DUMPING IS COMPLETE. IT IS TO BE REMOVED ONLY AFTER THE REACTOR IS MADE READY FOR CHARGING.

OPERATIONS MAINTENANCE

SL 003944

SIGN SIGN
CHECK BELOW CHECK BELOW

GROUND LEVEL

N2 TO O2 BLOCK AT O2 HEADER
N2 TO RECYCLE IF R.D. IS BLOWN
ISOLATE THE BLOWDOWN BOX
CROSSOVER AIR VALVE
#1 AIR BLOWER BREAKER IF NECESSARY
#2 AIR BLOWER BREAKER IF NECESSARY
N2 FCV TO MFH UPSTREAM BLOCK VALVE
N2 FCV TO MFH BYPASS VALVE

THE N2 TO THE MIXED FEED HEADER VALVE STATION MAY BE TAGGED AND UNTAGGED WITHOUT REMOVAL OF PERSONAL TAGS AT THE STATION. THIS CAN BE DONE IN ORDER TO PRESSURIZE AND LEAK CHECK THE REACTOR. REPAIRING LEAKS CAN ALSO BE DONE WITH THE SYSTEM PRESSURIZED (IF WARRANTED) PROVIDED THE PROPER COMMUNICATION IS GIVEN.

VARIANCE (IF ANY) _____

REACTOR HEAD DECK

N2 TO BLOWDOWN LINE AT BOTTOM

VARIANCE (IF ANY) _____

FIRST DECK

N2 PURGE TO APPROPRIATE AIR BLOWER (S. HANDRAIL)

VARIANCE (IF ANY) _____

HALO DECK

N2 TO CATALYST LEVEL TRANSMITTER GAUGE (#5 RX ONLY)

VARIANCE (IF ANY) _____

CATALYST POT DECK

N2 TO BLOWDOWN LINE BELOW CYCLONE
N2 TO RAM VALVE
N2 TO CAT POT
STEAM TO THE CATALYST CHARGE POT

VARIANCE (IF ANY) _____

TOP DOME DECK

FLUSH WATER BLOCK VALVE
N2 PURGE TO PRESSURE TRANSMITTER BEFORE CYCLONE
N2 PURGE TO PRESSURE TRANSMITTER AFTER CYCLONE
N2 PURGE TO PRESSURE TRANSMITTER AFTER PRIMARY

VARIANCE (IF ANY) _____

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