- TRI-TI SOP -

SOP#: 5

SOP TITLE: ADDITION OF CATALYST TO AN OPERATING OHC REACTOR

OPERATOR: _____

DATE: _____

Written by: Frank Miller
Tony Curtis
date: 1/24/89
reviewed by: CONTROL ROOM
date: 11/11/92

approved by: Art Reinhardt
date: 02/15/92

CHECK ACTION STEPS AS THEY ARE COMPLETED

THE CATALYST ADDITION SCHEDULE FOLLOWS: (BASIS: 12HR SHIFT. 1/9/1989)

MONDAY: 2 DRUMS
TUESDAY: 2 DRUMS
WEDNESDAY: 2 DRUMS
THURSDAY: 1 DRUM
FRIDAY: 2 DRUMS
SATURDAY: 2 DRUMS
SUNDAY: 1 DRUM

____ 1. JOB SAFETY INSTRUCTIONS REVIEWED.
WATCH FOR PINCH POINTS.

____ 2. ENSURE THAT YOU ARE WEARING PROPER SAFETY EQUIPMENT.
A. SAFETY GLASSES.
B. HARDHAT.
C. GOGGLES.
D. RUBBER GLOVES.
E. DUST MASK.

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____ 3. PRESSURE THE CATALYST POT UP TO BETWEEN 20 AND 30 PSIG WITH N2 IN ORDER TO MAKE SURE THAT THE POT IS CLEAR AND AT THI SAME TIME MAKE SURE THE PRESSURE GAUGE IS WORKING. DEPRESSURIZE IT TO THE ATMOSPHERE (IF ANY VAPORS APPEAR · DEPRESSURIZE IT TO THE REACTOR).

____ 4. AFTER ALL THE PRESSURE IS RELIEVED LOOSEN THE HATCH BOLTS AND OPEN THE HATCH ON THE CATALYST POT.

____ 5. USING THE CHAIN HOIST, MOVE A FULL CATALYST DRUM IN POSITION TO BE DUMPED INTO THE CATALYST POT.

A. DO NOT GET DIRECTLY BENEATH THE DRUM IN CASE THE CHAIN SLIPS.
B. ONCE THE CATALYST ADDITION POT CHARGING DECK IS ASCENDED CONNECT THE CHAIN ACROSS THE OPENING TO PREVENT A FALL.
C. POSITION THE FUNNEL IN THE HATCH OF THE CHARGE POT.
D. REMOVE THE DRUM LID AND RING AND POSITION THE LINER BAG TO KEEP THE BAG FROM ENTERING THE CATALYST POT.
E. DUMP THE CATALYST IN THE POT AND MOVE THE EMPTY DRUM OUT OF THE WAY.

____ 6. MAKE SURE THE O-RING IS IN POSITION. CLOSE THE LID AND TIGHTEN THE BOLTS SECURELY.

____ 7. PRESSURIZE THE CATALYST POT WITH N2 TO APPROXIMATELY 20 PSI ABOVE THE REACTOR PRESSURE AND BLOCK THE N2 TO THE CATALYST POT.

____ 8. FULLY OPEN THE CATALYST ADDITION RAM VALVE. BE AWARE OF LEAKS.

____ 9. OPEN THE CATALYST ADDITION BLOCK VALVE. UNBLOCKING THE N2 AS NEEDED TO MAINTAIN A POT PRESSURE ABOVE THE REACTOR PRESSURE AND KEEP CATALYST MOVING INTO THE REACTOR.

____ 10. WHEN THE POT IS CLEAR (A LARGE PRESSURE DROP CAN BE SEEN AT THE CATALYST POT AND A HISSING SOUND OF N2 ENTERING THE REACTOR CAN BE HEARD) CLOSE THE CATALYST POT BLOCK VALVE AND BLOCK THE N2.

____ 11. CLOSE THE CATALYST ADDITION RAM VALVE. (JUST BEFORE COMPLETELY CLOSING THE RAM VALVE, PUT A N2 SWEEP THROUGH THE POT TO KEEP ANY REACTOR VAPORS FROM BEING TRAPPED BETWEEN THE BLOCK VALVE AND THE RAM VALVE. FINISH CLOSING THE RAM VALVE. ALONG WITH THE N2 AND ADDITION POT BLOCK VALVES.)

____ 12. DEPRESSURIZE THE CATALYST ADDITION POT AND STORE THE EMPTY CATALYST DRUMS IN THE PROPER PLACE.

____ 13. AFTER ALL OF THE CATALYST HAS BEEN ADDED, PICK UP ANY TRASH ON THE DECK THAT MAY HAVE ACCUMULATED AS A RESULT OF THE CATALYST ADDITION. TIE-WRAPS, PLASTIC, ETC. MAY BE PLACED IN AN EMPTY DRUM FOR DISPOSAL.

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