

- TRI-II SOP -

SOP#: 70

SOP TITLE: RE-DIRECTING THE OHC VENTS FROM THE
SCRUBBER TO THE INCINERATOR

OPERATOR: _____

DATE: _____

written by: Control Room
date: 7/6/89

reviewed by: CONTROL ROOM
date: 01/01/92

approved by: Art Reinhardt
date: 02/18/92

CHECK ACTION STEPS AS THEY ARE COMPLETED

(A DIAGRAM OF THE OHC-II VENT HEADER SYSTEM IS APPENDED FOR REFERENCE.)

OHC-II VENTS ARE CONTROLLED BY THE INCINERATOR FEED VALVE, FV-9521, AND THE VENT HEADER BACK PRESSURE CONTROL VALVE, PV-950. FOR NORMAL OPERATION, FV-9521 IS WIDE OPEN AND PV-950 REMAINS CLOSED AS LONG AS VENT HEADER PRESSURE IS BELOW THE PV-950 SET POINT (DESIGN IS 6 PSIG). IF PV-950 OPENS, EVEN SLIGHTLY, A POSITION SWITCH GIVES THE ALARM:

N949 OHC SCRUBBER VALVE OPEN

AT THIS POINT, AN INCINERATOR BYPASS HAS OCCURRED, AND OPERATORS MUST LOG HOW LONG VENTS GO TO THE SCRUBBER AND FOR WHAT REASON. NOTE THAT EVEN WHEN THE REACTOR IS DOWN, IF THE CHLORAL TREATMENT SYSTEM, THE DH STILL, OR THE STEAM STRIPPER IS RUNNING, VINYL CHLORIDE IS BEING EMITTED FROM OHC AND THIS EVENT COUNTS AS AN INCINERATOR BYPASS. WHEN HEADER PRESSURE DECREASES AND THE SCRUBBER VALVE CLOSSES, THIS MESSAGE MARKS THE END OF THE BYPASS:

N949 OHC SCRUBBER VALVE CLOSED

TWO LOCAL SHUTDOWN FEATURES ADD TO THE SAFETY OF THE OHC-II VENT SYSTEM. IF EITHER P-950 OR P-454 REACHES 10 PSIG, THE OHC-II VENTS TRIP TO THE SCRUBBER AND THE INCINERATOR FEED VALVE, FV-9521, CLOSSES. A MANUAL TRIP SWITCH ALLOWS THE OPERATOR TO TRIP VENTS TO THE SCRUBBER IN AN EMERGENCY. EITHER FEATURE DE-ENERGIZES THE SCRUBBER VALVE SOLENOID, TURNS ON THE RED ALARM LIGHT, AND ALLOWS PV-950 TO FAIL OPEN, GIVING THE FOLLOWING MESSAGES:

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N939 OHC VENT TO SCRUBBER
N949 OHC SCRUBBER VALVE OPEN
N954 OHC VENT HEADER PRESSURE HIGH
N950 OHC VENT HEADER PRESSURE HIGH

THE LAST MESSAGES ARE ONLY RECEIVED IF A HIGH PRESSURE TRIP OCCURRED.

TO RE-ENERGIZE THE SCRUBBER SOLENOID AND PUT THE VALVE BACK IN SERVICE, PV-950 SHOULD BE PUT OPENED FULLY ON MANUAL, THEN THE RESET BUTTON CAN BE PUSHED. THIS RESETS THE SCRUBBER SOLENOID, OPENS INCINERATOR FEED VALVE FV-4521 AND GIVES THE MESSAGE:

N939 OHC VENTS TO INCINERATOR

THE VALVE CAN THEN BE MANUALLY CLOSED TO BUILD UP HEADER PRESSURE, AND PLACED ON AUTOMATIC, ONCE FLOW IS ESTABLISHED TO WTU.

NOTE THAT WHEN BOTH UNITS ARE TRIPPED TO THE SCRUBBER, THE INCINERATOR HEADER DOWNSTREAM OF INCINERATOR FEED VALVES, FV-4521 AND FV-9521, WILL BE BLOCKED IN AND MAY BUILD UP PRESSURE FROM ROTAMETER PURGES ON THE PRESSURE TRANSMITTERS. INCINERATOR HEADER PRESSURE SHOULD BE WATCHED CLOSELY TO AVOID BLOWING THE VENT HEADER RUPTURE DISC.

- ___ 1. JOB SAFETY INSTRUCTIONS REVIEWED.
- ___ 2. ENSURE THAT YOU ARE WEARING PROPER SAFETY EQUIPMENT.
- ___ 3. CALL WTU AND LET THEM KNOW THAT YOU WISH TO SEND VENTS.
- ___ 4. WTU SHOULD GIVE YOU A GREEN "READY" LIGHT, WHICH IS LOCATED ON THE INCINERATOR CONTROL PANEL IN CONTROL ROOM. (AT THE SAME TIME WTU SHOULD BE RESETTING THE HEADER BLOCK VALVE -CONTROL VALVE HV-6015 - AND CRACKING IT OPEN TO REDUCE THE HEADER PRESSURE).
- ___ 5. THE SCRUBBER VALVE (PV-950) SHOULD BE ON MANUAL AND OPENED FULLY.
- ___ 6. PUSH THE OHC-11 VENT RESET BUTTON. (THE GREEN LIGHT SHOULD BE LIT TO RESET VENTS). THIS WILL ENERGIZE THE SCRUBBER VALVE SOLENOID AND OPEN FV-9521.
- ___ 7. SLOWLY CLOSE THE SCRUBBER VALVE (F-950), WATCHING THE VENT HEADER PRESSURE. (WTU SHOULD CONTINUE OPENING HV-6015 TO TAKE THE VENTS AS THEY SEE THE HEADER PRESSURE RISING).

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- _____ 8. WHEN THE SCRUBBER VALVE IS COMPLETELY CLOSED PUT THE VALVES ON AUTOMATIC, WITH THE PRESSURE CONTROL SETPOINT AT 6 PSIG.
- _____ 9. REDUCE WATER FLOW TO SCRUBBER OR WATER FLOW CAN BE SHUT OFF COMPLETELY.
- _____ 10. LOG THE TIME THAT THE SCRUBBER VALVE (PV-950) CLOSED.

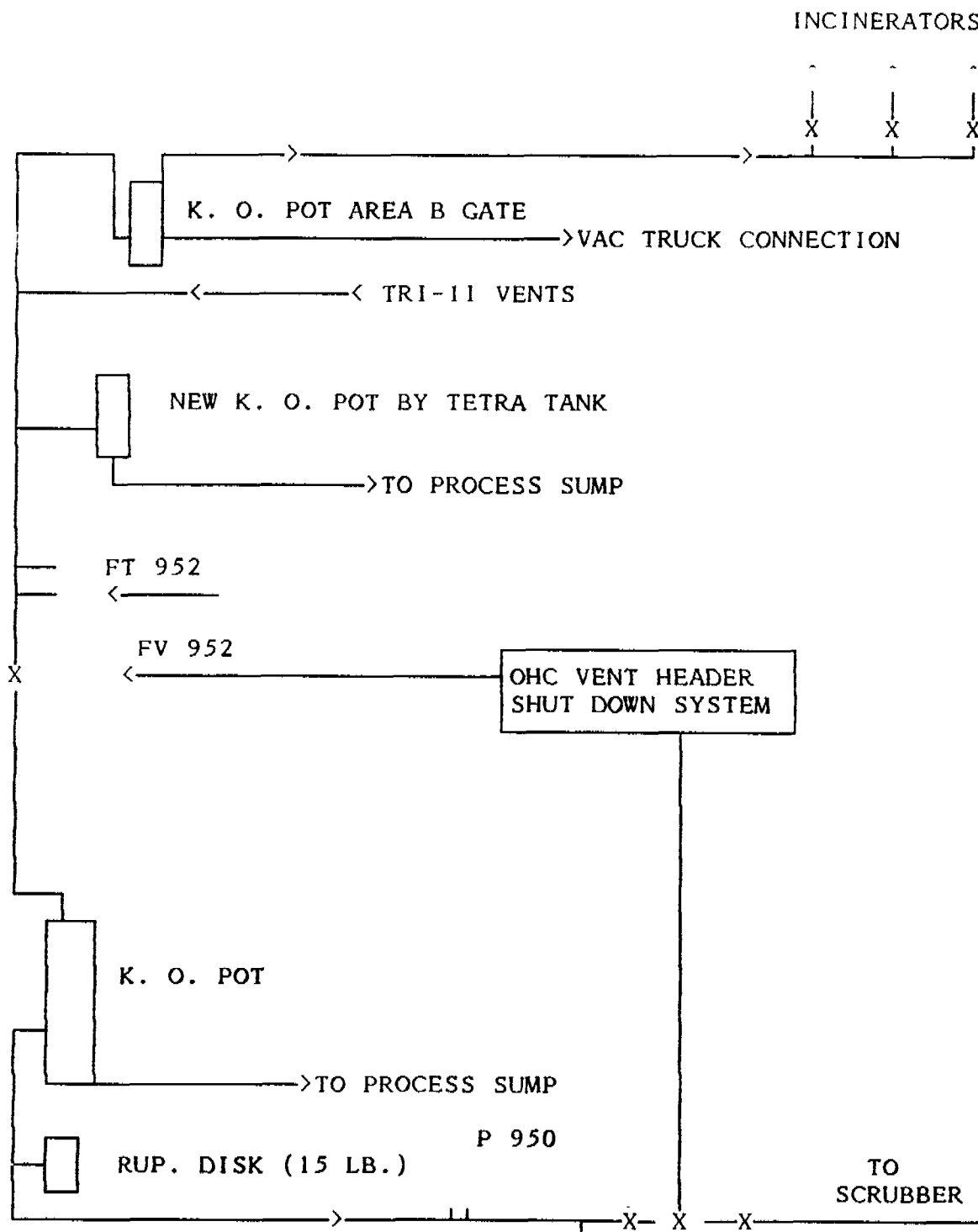
THE SCRUBBER VALVE SHOULD RARELY BE IN A POSITION WHERE A TOTAL RESET IS NECESSARY. IN MOST CASES WHERE INCINERATOR SHUTDOWNS RESULT IN VCM VENT BYPASSES, THE PLANT VENT IS THROTTLED TO THE SCRUBBER THROUGH PV-950 WHILE HV-6015 AT WTU IS CLOSED (DUE TO THE INCINERATOR TRIP). WHEN WTU OPENS HV-6015, THE HEADER PRESSURE WILL DROP AND THE SCRUBBER VALVE AUTOMATICALLY CLOSES. OPERATORS ONLY HAVE TO REDUCE WATER FLOW TO THE SCRUBBER AND LOG THE TIME THAT VENTS RETURNED TO THE INCINERATOR.

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TRI-11 OHC-11 VENT HEADER SYSTEM

(written by Control Room)



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