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EDC UNIT SOP MANUAL

Section: Reactors

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Description: Normal Plant Vent Operation

EFFECTIVE DATE: 5/18/92

APPROVED BY: *[Signature]*

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THE NORMAL FLOW OF THE REACTOR VENT STREAMS IS TO THE INCINERATORS AT WTU. WTU VALVES OUR VENTS TO ONE OR MORE INCINERATORS.

THE VENTS MUST GO TO THE INCINERATOR DURING STARTUP AND SHUT DOWNS. THIS IS REQUIRED BY OUR ENVIRONMENTAL REGULATIONS. BUT IT IS DIFFICULT BECAUSE EXCESS ETHYLENE CAUSES THE INCINERATOR TO HEAT UP AND IT MAY SHUT DOWN. CLOSE COMMUNICATION WITH THE OPERATORS AT WTU IS REQUIRED. IF THE VENTS TRIP - THEY SHOULD BE RESET AS SOON AS POSSIBLE.

THE RECOVERY STILL VENTS ARE TIED INTO THE SAME LINE WITH #1 PLANT VENT. THE #1 AND #2 PLANT VENTS TIE TOGETHER AT THE SOUTH END OF #2 PLANT. EACH PLANT CAN BE INDEPENDENTLY ROUTED TO EITHER THE INCINERATOR AND SCRUBBER.

AT THE SOUTH END OF #2 PLANT, AFTER THE TIE IN BETWEEN #1 AND #2, THERE IS A DRAIN OFF THE BOTTOM OF THE LINE THAT GOES INTO A KNOCK OUT POT. THIS POT PREVENTS LIQUID FROM GOING TO INCINERATORS. YOU SHOULD CHECK THIS POT ON YOUR ROUNDS AND EMPTY IT AS REQUIRED. INVESTIGATE AND REPORT TO SUPERVISION IF THE KNOCK OUT POT FILLS RAPIDLY WITH LIQUID. A RATE CUT MAY BE REQUIRED IF EXCHANGERS ARE TOO FOULED TO WORK EFFICIENTLY.

THE SCRUBBERS ARE SET UP SUCH THAT WHEN THE VENTS ARE TRIPPED, A WATER VALVE AUTOMATICALLY OPENS TO THE SCRUBBER. WHEN THE VENTS ARE SWITCHED BACK TO THE INCINERATOR, THIS VALVE SHUTS.

THE EFFLUENT FROM THE SCRUBBERS GOES TO THE LIFT STATION SUMP. IN ORDER NOT TO OVERLOAD THE STEAM STRIPPER, IT WAS DECIDED THAT NO WATER FLOW WOULD GO TO THE SCRUBBERS WHILE THE VENTS IN THE INCINERATOR.

IN ORDER TO RESTORE VENTS TO THE INCINERATOR, THE EDC/VDCM OPERATOR MUST HAVE PERMISSION FROM THE INCINERATOR OPERATOR. THE VENT SWITCHES WILL BE RESET BY WTU ONCE THE VENTS CAN BE PUT BACK IN. THE EDC TANK FARM VENTS TIE INTO THE #1 PLANT VENT LINE AND GO TO THE INCINERATOR OR SCRUBBER ALSO.

ON DECEMBER 19, 1990 WE HAD A ORC MEETING TO ALLOW US TO TAKE THE VENT TRIP FEATURE OUT OF THE REACTOR SHUTDOWN SYSTEM. THIS MEANS THAT WHEN WE HAVE A MODICON TRIP ON EITHER REACTOR THE VENTS WILL CONTINUE TO THE INCINERATOR UNLESS THE OPERATOR MANUALLY TRIPS THEM TO THE SCRUBBER. REMEMBER, YOU SHOULD ALWAYS LEAVE THE VENTS IN THE INCINERATOR UNLESS INSTRUCTED TO TAKE THEM OUT BY WTU.

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