

TO: INCINERATOR & LEAD OPERATORS

FROM: STEVE CLARK

SUBJ: REVISIONS
AT INCINERATORS

DATE: OCTOBER 1991

WE ARE IN THE PROCESS OF MAKING SEVERAL REVISIONS AT THE INCINERATORS AS THE RESULT OF PERMIT REVISIONS AND OTHER REQUIREMENTS. THE FOLLOWING IS A SUMMARY OF THOSE ITEMS AND THE EFFECTIVE DATES FOR THOSE REVISIONS:

HIGH COMBUSTION AIR FLOW LIQUID TRIP

WHEN NO. 3 INCINERATOR STARTS UP (WEEK OF 10/7/91) LIQUIDS WILL TRIP IF THE AIR FLOW IS NOT BROUGHT DOWN TO LESS THAN 880,000 SCFH. THERE IS A ONE (1) MINUTE DELAY AFTER THE ALARM BEFORE THE LIQUIDS WILL TRIP.

LIQUIDS WILL TRIP AT NO. 1 AND 2 INCINERATORS WHEN THE AIR FLOW EXCEEDS 660,000 SCFH FOR THE INCINERATOR BURNING THE WASTE. THERE IS ALSO A ONE (1) MINUTE DELAY AT THESE INCINERATORS. NO. 1 AND 2 INCINERATORS WILL BE REVISED FOR THESE CHANGES AFTER NO. 3 INCINERATOR IS RETURNED TO OPERATION (WEEK OF 10/21/91).

QUENCH WATER SYSTEM NO. 3 INCINERATOR

AS NO. 3 INCINERATOR COMMONLY OPERATES ABOVE 880,000 SCFH AIR FLOW, THE QUENCH WATERING SYSTEM IS BEING RE-INSTALLED. SEVERAL IMPROVEMENTS HAVE BEEN MADE OVER THE PREVIOUS SYSTEM. THE QUENCH WATER WILL ACTUALLY BE BOILER FEED WATER AND NITROGEN WILL BE USED TO ATOMIZED THE WATER. ALSO THE INSTRUMENTATION HAS BEEN UPGRADED FOR BETTER FLOW INDICATION. NOTE: THE QUENCH WATER VALVE WILL TRIP WHEN THE INCINERATOR TRIPS CUTTING OFF WATER TO THE INCINERATOR. THE QUENCH WATER VALVE WILL BE A MLS AND WILL NEED TO BE OPERATED DURING MAXIMUM LIQUID BURNING CONDITIONS. THE QUENCH WATER SYSTEM WILL BE OPERABLE WHEN NO. 3 INCINERATOR IS RE-STARTED. A MORE DETAILED OPERATING PROCEDURE IS FORTHCOMING.

SECONDARY SCRUBBER RECIRCULATION FLOW LIQUID TRIP

LIQUID FEED TO NO. 1 OR NO. 2 INCINERATOR WILL TRIP WHEN THE SECONDARY SCRUBBER RECIRCULATION FLOW FALLS BELOW 300 GPM. THIS IS AN INSTANTANEOUS LIQUID TRIP. NOTE ALSO THAT THE PUMP DISCHARGE VALVES ARE CURRENTLY THROTTLED TO KEEP THE MOTORS FROM TRIPPING AND TO PREVENT A HIGH RANGE FLOW ALARM.

UPON THE INSTALLATION OF LARGER PUMPS AT NO. 3 SECONDARY SCRUBBER (APPROX. 11/15/91) LIQUIDS TO NO. 3 INCINERATOR WILL TRIP WHEN THE RECIRCULATION FLOW FALLS BELOW 175 GPM. THE RECIRCULATION FLOWS COME TO THE PC IN THE CONTROL ROOM.

PW: INCREV.OCT

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RCRA / AIR PERMIT CONDITIONS

EFFECTIVE 11/01/91 NO. 1 AND NO. 2 INCINERATORS WILL BE OPERATED UNDER THE RCRA AND AIR PERMITS. NO. 3 INCINERATOR HAS BEEN OPERATING UNDER THESE CONDITIONS FOR APPROXIMATELY THREE MONTHS WITH THE EXCEPTION OF THE SECONDARY SCRUBBER RECIRCULATION AND HIGH COMBUSTION AIR FLOW CONDITIONS. SEE INCSOP90 TO REVIEW THESE OPERATING CONDITIONS. WE WILL ALSO BE REQUIRED TO RECORD DATA ON DISKETTE ON A CONTINUOUS BASIS. A SUPPLY OF DISKETTES WILL BE FURNISHED. FURTHERMORE, THE FOLLOWING INFORMATION MUST BE ENTERED INTO THE STRIDE COMPUTER EFFECTIVE 11/01/91:

- WASTE STORAGE TANK LIQUID FEED COMPOSITE ANALYSIS (CHANGED WEEKLY ON FRIDAYS)
- NUMBER OF WASTE STORAGE TANK WITH MATERIAL BEING FED TO AN INCINERATOR (CHANGED WHEN TANKS SWAPPED)
- VENTS BEING FED TO AN INCINERATOR (CHANGED WHEN VENTS ARE SWAPPED)

UPS (UNINTERRUPTABLE POWER SUPPLY) SYSTEM

A UPS SYSTEM SIMILAR TO THE SYSTEM ON THE FOXBORO IS BEING INSTALLED ON THE INCINERATOR PLC'S. NO. 1 AND 2 INCINERATOR PLC'S WILL SHARE A UPS UNIT WHILE NO. 3 INCINERATOR WILL HAVE ITS OWN UNIT. THE UNITS WILL BE LOCATED AT THE SABINE SUBSTATION. AN ALARM WILL SOUND IN THE CONTROL ROOM WHEN THERE IS A PROBLEM WITH THE UNITS. THE UNIT FOR NO. 3 INCINERATOR IS BEING TIED-IN DURING THE CURRENT OUTAGE. THE UNIT FOR NO. 1 AND 2 INCINERATORS WILL BE INSTALLED DURING THE WEEK OF 10/21/91.

KNOCK OUT POT LEVEL DETECTORS

LEVEL DETECTING DEVICES HAVE BEEN INSTALLED ON NO. 1, 2 & 3 INCINERATOR VENT HEADER KNOCK OUT POTS AND THE VCII/CSS KNOCK OUT POT. THE DETECTORS WILL ALARM ON THE PANEL BOARD WHEN A LEVEL OF 50% IS SEEN IN THE POT SIGHT GLASS.

PRIMARY SCRUBBER WATER

NO. 1 AND NO. 2 INCINERATOR PRIMARY SCRUBBER WATER FCV BYPASSES ARE TO BE OPENED SLIGHTLY TO ASSURE 150 GPM OF WATER ON THE SCRUBBERS AT ALL TIMES. FURTHERMORE, THE WATER FCV IS TO OPERATE ON "MANUAL."

AS THE BOTTOM WATER FLOW TO NO. 3 INCINERATOR ABSORBER IS CONTROLLED BY THE WEAK ACID SPC PROCESS, THE BYPASS ON THIS VALVE WILL NOT BE OPENED AT THIS TIME.

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*TOP WATER
BYPASS IS OPEN.*

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NO. 3 INCINERATOR VENT TEMPERATURE TRIP

NO. 3 INCINERATOR VENT VALVES WILL TRIP WHEN THE TEMPERATURE IN THE VENT HEADER PIPING EXCEEDS 250 DEG. F. THERE IS AN ALARM AT 200 DEG. F. MAINTAIN A N2 PURGE ON THIS SECTION OF THE VENT HEADER EVEN WHEN NOT BURNING VENTS.

NO. 3 INCINERATOR AIR TCV

IN MAY 1991 THE COMBUSTION AIR MLS VALVE WAS CONVERTED TO A TCV TO PREVENT INCINERATOR SHUTDOWN ON LOW TEMPERATURE AND TO CONSERVE NATURAL GAS. THE CONTROLLER IS BEING OVERHAULED DURING THE CURRENT OUTAGE. THE VALVE IS OPERATED ON "MANUAL" DURING HEAT UP OF THE INCINERATOR AND WHEN LIQUIDS ARE BEING INTRODUCED TO THE INCINERATOR. AT OTHER TIMES THE VALVE SHOULD BE OPERATED ON "AUTOMATIC" (NOTE IN LOGBOOK PROBLEMS WITH VALVE AND LETS WORK TO CORRECT).

BETZ CHEMICAL TANK AT BFW PUMPS

WHEN NO. 3 INCINERATOR IS RESTARTED WE WILL BEGIN USING 100% CHEMICAL INSTEAD OF THE 50-50 CHEMICAL-CONDENSATE MIXTURE AT PRESENT. THE MATERIAL WILL BE FED AT A LOWER RATE. EVENTUALLY THE TWO TANKS WILL BE REPLACED WITH A SINGLE FRP TANK.

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WHEN SWAPPING TO A BACK-UP CO ANALYZER REMEMBER TO SWAP ON THE CONTROL ROOM PANEL BOARD AND ALSO FLIP THE SPARE CO SWITCH IN THE ANALYZER HOUSE NORTH-WEST OF NO. 1 INCINERATOR. VERIFY THAT A FLOW IS ESTABLISHED IN THE ROTOMETERS TO THE SPARE ANALYZER.

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