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DEVELOPED:
REVIEWED: 8/26/94
REVISED: 9/93
BY: Odas Orser

RL000119
REVISION #: 1
APPROVED BY: Tom Normand
EFFECTIVE DATE: 9/93

AREA: H2 Recovery

TYPE: Shutdown

- I. OBJECTIVE: To safely prepare H2 recovery for maintenance work.
- II. FREQUENCY: To required
- III. RESPONSIBILITY: Area operator, acting shift supervisor, or S.O.S. are responsible for safe execution of this procedure.
- IV. REVISIONS: 9/93 - Changed to new format
- V. REFERENCES:
- VI. REQUIREMENTS:
 - A. NOTIFICATION: Boardman, acting shift supervisor, or S.O.S. Notify H2 users (Chlorine, Power Air Products) of unit outage.
 - B. DOCUMENTATION: Record time in control room log book and make note in area operator and shift supervisor relief log book.
 - C. REGULATIONS: None
- VII. PREPARATION:
 - A. SAFETY/ENVIRONMENTAL
 - 1. EQUIPMENT: Block safety equipment
 - 2. HAZARDS: H2 and N2
 - 3. PRECAUTIONS: No spark producing activities to be performed until after this procedure is complete.
 - B. EQUIPMENT:

24-OCT-1994 13:41:16.66

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Page 1 of 2

DO A 047255
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VIII. PROCEDURE:

- A. OPEN N2 TO T-601 AND PURGE THROUGH T-601 OUT HIGH POINT BLEEDS ON TOP. PURGE FOR APPROXIMATELY 1 HOUR. HOOK UP NITROGEN HOSE TO D-601 TO HELP PUT MORE NITROGEN INTO THE SYSTEM.
- B. AFTER T-601 PURGING, OPEN UPSTREAM AND DOWNSTREAM BLEEDS AROUND RUPTURE DISC. BLOCK C-601 OUTLET AND PURGE THROUGH BLEED UPSTREAM OF C-601 OUTLET. BLOCK T-601 HIGH POINT BLEEDS - PURGE FOR APPROXIMATELY 1 HOUR.
- C. AFTER C-601 PURGING, OPEN C-601 OUTLET, CLOSED BLEED AND PURGE THROUGH T-602 AND T-603 AND OUT HIGH POINT BLEEDS ON BOTH COLUMNS. ALSO, OPEN BLEED JUST UPSTREAM OF H2 OUT CONTROL LOOP AND BYPASS. MAKE SURE THESE TWO VALVES ARE CLOSED. OPEN RECYCLE VALVES FROM T-602 BACK TO T-601 FOR PURGING OF THESE LINES. AT THE SAME TIME T-603 VENT MAY BE OPENED FOR PURGING.
- D. WHILE THIS EQUIPMENT IS PURGING, DISTRIBUTION HEADER MAY ALSO BE PURGED. CONNECT N2 HOSE TO BLEED JUST DOWNSTREAM OF H2 OUT CONTROL LOOP. AFTER CONTACTING CL2 PLANT, BEGIN TO PURGE HEADER INTO THEIR BLOCK. PURGE THIS LINE UNTIL IT IS FREE OF HYDROGEN.
- E. AFTER PURGING IS COMPLETED THROUGH T-603, ENTIRE SYSTEM MAY NOW BE PURGED WITH THE EXCEPTION OF THE DISTRIBUTION HEADER. CRACK OPEN ALL HIGH POINT BLEEDS AND CONTINUE TO PURGE UNTIL SCHEDULED MAINTENANCE WORK IS TO BEGIN. AT THIS TIME A SNIFF CAN BE MADE TO INSURE NO H2 IS PRESENT.

24-OCT-1994 13:41:17.55

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Page 2 of 2

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