

EMERGENCY PROCEDURES FOR POWER FAILURE

RX50P 70

Reactor Operator

- A. Switch control room to N₂, open doors (if necessary).
- B. Immediately put all reactors on nitrogen.
- C. Secure reactors.

Lead Operator (Subject to L.O. judgment and circumstances)

- A. Check well water booster pumps. If not on, block discharge valves and open up fire water.
- B. Block reactor feeds.
- C. Check vent header rupture disc. If blown, isolate blown disc and insure the spare disc is unblocked.
- D. Secure plant.

C Operator

- A. Block discharge of condensate feed pumps.
- B. Open bypass valves as necessary at metering stations.
- C. Block reactor feeds.
- D. Secure plant.

Auxiliary Operator

- A. Help lead operator get fire water on to flush water system.
- B. Help as lead operator sees fit.

- _____ 1. Have pancakes removed on all reactors.
- _____ 2. Block O₂ PCV.
- _____ 3. Steam to O₂ and organic preheaters.
- _____ 4. Block recycle tank LCV.
- _____ 5. Block discharge valves on CTW pumps.
- _____ 6. Block steam PCV's if necessary

SL 020299

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RX SOP 71

CONDITIONS AND PROCEDURES IN EMERGENCIES INVOLVING UTILITY AND FEED LOSSES

Unusual or unexpected operating problems in the Per-Tri Plant have developed in the past, and, of course, will occur in the future. Each emergency situation such as a loss of one of the utilities or reactor feeds allows us a better knowledge of operations through experience. To summarize some of the previous problems, and consider other possible emergencies, this report is being compiled. Prior thought to loss of feeds or utilities, or other adverse conditions may avoid major damages or a disaster within the plant. Additions and corrections to the following discussions by any of the Per-Tri personnel are encouraged. This information should be kept up to date and should be especially beneficial for personnel newly assigned to the Per-Tri Plant.

Abstract

Conditions and operating procedures are discussed in this report for the following utility and feed losses:

1. Loss of O_2
2. Loss of N_2
3. Loss of both O_2 and N_2
4. Loss of instrument air
5. Loss of Cl_2
6. Power loss to the Per-Tri Plant
7. Power loss to the organics area (includes air compressors)
8. Power loss to include Liquefaction and the alternate emergency lighting power source
9. Loss of normal and alternate emergency lighting power

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