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MIC rundown into Tank E611 started on October 7, 1984. MIC refrigeration function failed on October 19, 1984 (MIC circulation pump seal leaked). Trimer-choked PVH backpressure caused MRS tower flooding & E610 contamination. MIC production was stopped on October 22, 1984 (Tank E610 was filled to capacity). VGS was shut down on October 23, 1984.

Trimer-choked Tank E610 vent valve failed to close. Nitrogen pressure in Tank E610 failed due to vent valve leak into PVH. Tank E610 feed out through Tank E611 failed (circulation pump leaked and was isolated). Tank E610 feed out through MIC transfer pump failed (transfer pump was abandoned). Tank E610 cleaning attempt was made on December 2, 1984 with utility station water. Tank E610 head manifold pressure gauge was replaced with a threaded hose coupling. Utility station water hose was connected to Tank E610 head manifold pressure tap.

Utility station water valve was opened to flush trimer deposits out of the vent valve. Intended water flow direction (through the vent valve, into the PVH). Actual water flow direction (through the common valve, into Tank E610).

40PSIG in Tank E610 opened pressure relief valve at 12:30 AM on December 3, 1984. VGS failure (max design rate exceeded and low NaOH concentration). Flare failure (corroded and partially disassembled flare header piping). Water curtain failure (flow header pressure from multiple fire monitors online).