

September 26, 1991

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cc: Doyle Haney

Response to Chlorinated Methanes 2 year Reactive Chemical Process Review

1. The autoignition temperature of Shell Thermia C hot oil is 340 C. If this autoignition temperature requires us to take special precautions other than what we already have in place, please notify us.
2. With the current reactor design and system pressure rating, it is not possible to incorporate Stade's reactor technology. However, a new reactor will be installed with the expansion project in 1993 that will incorporate the Stade design.
3. The reactive chemical consequences of Thermia C oil contacting with zinc chloride and mercuric chloride were studied in the reactive chemical lab. No thermal activity was detected under the experimental conditions.
4. Reactive chemical testing between grafoil graphite gasket material and dry chlorine was generated in Texas at the request of the Chloralkali Technology Center. Grafoil GHP, Grafoil GTR and Flexseal were tested with dry chlorine. All tested acceptable for dry chlorine service. The specific reactive chemical data can be found in reports RCT-88-094, RCT-88-0486, and RCT-88-0677.
5. One second data collection and display is physically limited. Disk drives can not store data at that rate and the software packages are competing for CPU time. The closest method that can achieve this rate is the Fast Data Logger on the GPI package. It can log data to memory based on 3600 one second memory storage and is limited to 50 data points. Any longer data storage time would cause other system packages to suffer in response time. Only a system totally dedicated to one second data collection could be expected to retrieve and retain one second data for a useful period of time. At this time we have no plans to install such a system unless the committee deems it as necessary to prevent reoccurring reactive chemical incidents.

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DO A 032514  
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