

DMB 016

July 31, 1981

Docket No. 50-289

Mr. Henry D. Hukill, Vice President  
and Director - TMI-1  
Metropolitan Edison Company  
P. O. Box 480  
Middleton, Pennsylvania 17057

Dear Mr. Hukill:

During our review of the Three Mile Island Nuclear Station unit No. 1 (TMI-1) waste gas system several telephone conversations ensued with your staff regarding the Hydrogen/Oxygen monitoring system. In order to confirm the information provided in these telephone conversations we request that you respond to the questions listed in the enclosure for the record.

It is requested that this matter be resolved within 60 days from the date of this letter.

Sincerely,

\*ORIGINAL SIGNED BY

JOHN F. STOLTZ\*

John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Enclosure:  
Request for Additional  
Information

cc: See next 3 pages

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Metropolitan Edison Company

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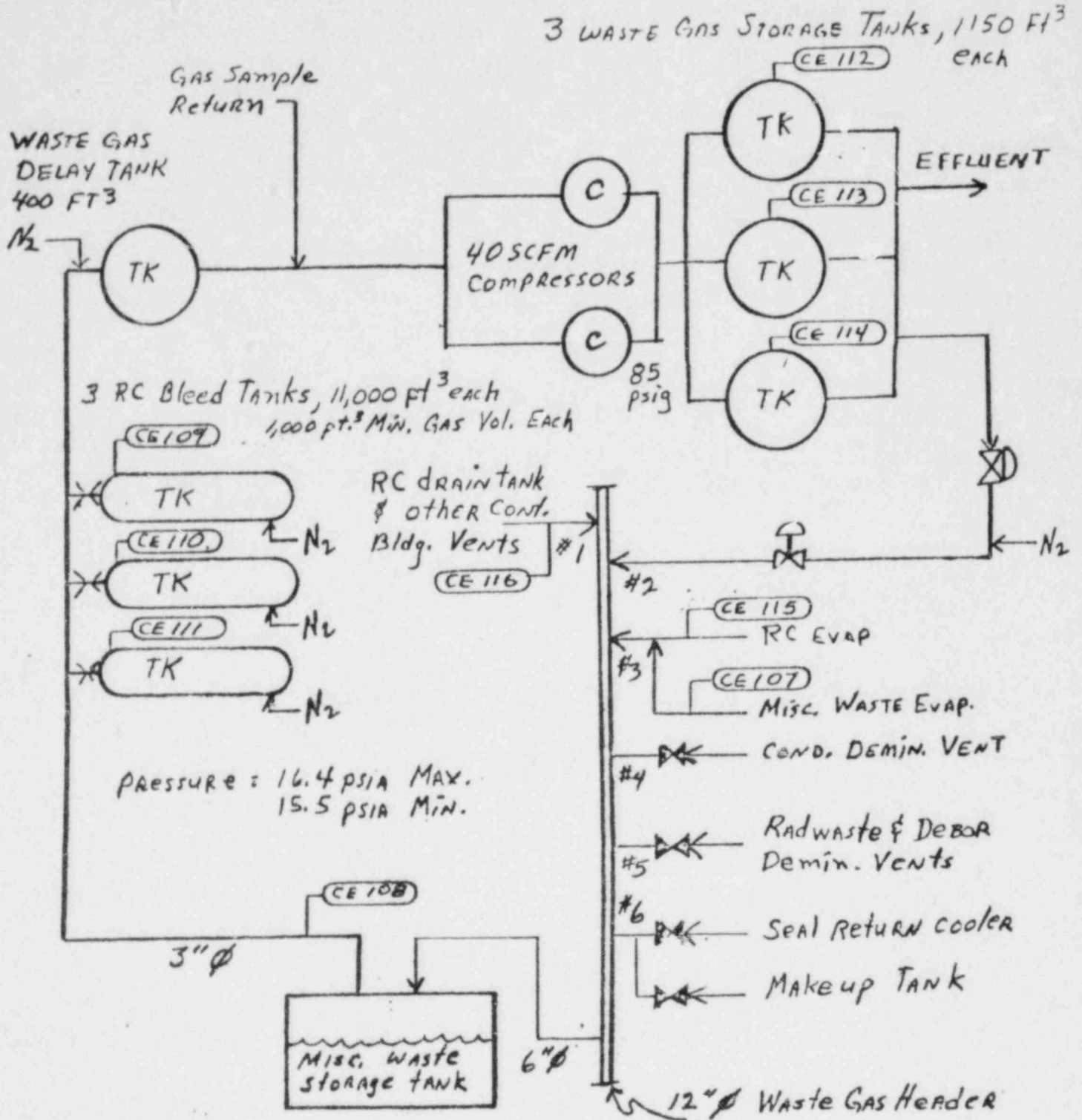
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QUESTIONS ON CONTROL OF  
EXPLOSIVE GAS MIXTURES IN  
THE TMI-1 WASTE GAS SYSTEMS

1. Are procedures in effect which require keeping waste gas concentrations below 3% H<sub>2</sub> and 0.1% O<sub>2</sub> by volume at each of the sampling points?
2. Is the waste gas system pressure controlled automatically so it stays between 15.5 and 16.4 psia?
3. Is N<sub>2</sub> constantly on supply to:
  - a) bleed tanks at MI-V17,
  - b) header at NI-V37,
  - c) waste gas delay tank,
  - d) compressors at NI-V23 & V24, and
  - e) makeup tank at NI-V22?
4. Is the sketch (Figure 1) of the waste gas system essentially correct?
5. During normal operation, is the principle source of H<sub>2</sub> letdown to the RC bleed tanks? Is this bleed no greater than 4000 gal/day?
6. When grab samples are necessary, will they be taken from the points where concentrations are most likely to be high, such as from CE-108 during degas?



CE- indicates sample location

Figure 1  
TMI-1 WASTE GAS SYSTEM