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HW-61465 RD

GENERAL ELECTRIC
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December 10, 1956

W. G. Browne
Advance Process Development Operation
Research and Engineering Operation
CHEMICAL PROCESSING DEPARTMENT

NUCLEAR SAFETY RELATING TO
CONTINUOUS TASKS I AND II

Part of the equipment for the Continuous Tasks I and II has been reviewed for nuclear safety by N. Ketzlach with the following comments.

Reactor

The product lines to and from the reactor should not be any closer than 2 feet from the intersection center line of the reactor and the reactor outlet flange.

The reactor stainless steel spool piece should have an inside diameter of less than 6 inches.

Drum Filter

The overflow on the drum filter pan should be located at the 4 liter mark and the entire filtering assembly should be positioned as follows:

Classification Cancelled and Changed To

DECLASSIFIED

By Authority of CG-PR-2,

WASnyder, 1-6-94.

By J. M. Muley, 4-21-94.

Verified By DKHanson, 4-21-94

Horizontal - 14 3/4 inches from the horizontal center line of the calciner (or end of the calciner) to the center line of the drum filter assembly.

Vertical - 11 inches from the horizontal center line of the calciner to the center line of the drum filter assembly.

Oxalate Hopper

The maximum allowable volume for the oxalate hopper is 0.7 liters.

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Calcinor

The inside diameter of the calciner discharge line should be no greater than 2 inches, and the distance from the bottom of the calciner to the top of the oxide hopper should be at least 12 inches.

The calciner off-gas condenser, which will be fabricated from 5 inch sch. 40 pipe 12 1/2 inches long and mounted horizontally, should be located as follows:

36 inches from the center line of the
reactor.

25 inches above the center line of the calciner,

6 inches from the hood wall to the center line of the condenser.

The condensate receiver which will be located on the floor of the hood should be located 24 inches from the center line of the vacuum receiver and 18 inches from the center line of the sump.

Fluorinator

The distance from the bottom of the fluorinator to the top of the fluoride powder hopper should be at least 12 inches. *See*

The fluorinator off-gas condenser, which will be fabricated from 4 inch sch. 40 pipe 12 inches long and mounted vertically, should be located as follows:

15 inches above vacuum receiver,

12 inches below fluorinator, (12" from fluorinator)
 3" (3" from left end of hood, and at
 32 inches from left end of hood, and at
 least 12 inches from the horizontal
 center line of the fluorinator.

Vacuum Receiver

The vacuum receiver should be at least 18 inches from the pump, and no product line should be within 12 inches of the vacuum receiver.

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Filtrate Storage Tank (Hood #7)

Product lines should not be any closer than 12 inches to the side of the Filtrate Storage Tank and if possible all lines should also be spaced 12 inches from this tank.

H. P. Maffei

H. P. Maffei
Finished Products Technology Operation
Research and Engineering Operation
CHEMICAL PROCESSING DEPARTMENT

/jap

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