FTW-2025C

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**300 AREA
CLASSIFIED FILES**

- #1 • GR Prout
#2 - FK McCune
#3 • WI Patnode
#4 • AB Greninger
#5 - OH Greager
#6 • WE Johnson
#7 - JR Kelly
#8 - PE Lowe
#9 • WK MacCready

- #10 - JE Maider
#11 - HD Middel
#12 - HM Parker
#13 - EW Seckendorff
#14 - CN Gross (LB)
#15 - 700
#16 - Pink
#17 - Yellow

HW--20250

DE93 002065

Richland, Washington
January 29, 1951

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NEW REACTOR AREA

- References: (a) D. F. Shaw to G. R. Prout, Letter dated January 10, 1951 (MAN:DFS)
(b) G. R. Prout to D. F. Shaw, Letter dated January 11, 1951

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OCT 28 1992

Reference (a) requested certain information regarding a new reactor area similar to H pile and DR Water Works on a no delay basis. Without the benefit of an engineering study, reference letter (b) gave the General Electric Company's best "guess" answers to the questions presented.

With the above information and that supplied by a special working committee, and the assumption that a directive to proceed would be received in the immediate future, A. B. Greninger, C. N. Gross, and W. E. Johnson met on January 26, 1951, and agreed that on a no delay basis a new reactor area (Replacement) should essentially copy H pile and DR Water Works.

The following information should serve as a guide in establishing the definite scope:

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A. REACTOR AND BUILDING

1. Power level should be equal to H pile.
2. Lattice spacing and size of pile should not be changed.
3. A ball 3X system similar to G design should be installed.
4. Control system should be similar to the one installed in H.
5. Graphite block similar to H.
6. A 25% increase in water annulus should be considered.
7. Elevators should provide for future automatic charging machines.
8. Use of heavy aggregate concrete for shielding may be considered.
9. The building around the pile should be reinforced concrete.

By Authority of CG-PR-2

Rm Ten 3-5-92

By PM Eick 10-6-92
J.N. Wells 10-6-92

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To: File

-2-

January 29, 1951

B. WATER WORKS

1. Design for process water should be for approximately 60,000 g.p.m., however, equipment (pumps, etc.) should be installed for approximately 50,000 g.p.m.
2. Water pressure should be 500 p.s.i. at the top of the pile risers.
3. Transition flows are not to be relaxed from present standards.
4. Shut down flows should be the same as present standards.
5. Size of effluent basins (Building 107) should take the increase flow into consideration. The Health Instrument Divisions should give an opinion on this matter.

Upon the receipt of a directive from the Atomic Energy Commission to proceed with this work, the Scope Committee (Nucleonics Department Organization Announcement No. A-49) will be requested by the Manager of the Manufacturing Divisions to scope a new reactor area using the above information as the primary basis.

Manager
Manufacturing Divisions

CN Gross:dpl

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END

**DATE
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12 / 15 / 92