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U. S. Atomic Energy Commission
Engineering Division
Washington, D. C.
3 December 1953

Resident Engineer
U. S. Atomic Energy Commission
APO 187 (HOF), c/o Postmaster
San Francisco, California

SUBJECT: VARIOUS DESIGN MATTERS - STATION 2300 - RA-1725 - COOPY AVAILABLE

Dear Sir:

The various design matters called to our attention in your RA-1725 have been reviewed by our Engineering Division as follows:

Station 2300 - RA-1725

- a. The wall in question which separates room No. 1 from the chimney is intended to be monolithic with adjoining walls and should be reinforced similar to detail 1 of Drawing 6402-DE-30. It is also intended that the vertical wall steel should extend into the slab of the second floor; however, this is not of structural significance since the second floor is designed to span between side walls. These details were not clearly delineated on the drawings and required further interpretation from our Engineering Design Advisor.
- b. The 1" prewelded joint filler between the wall in question and the floor slab of room No. 1 is to prevent transmission of any great amount of vertical load from the footing into the wall. It is not shown nor is it intended that this type of joint occur at any other point.
- c. The requirement for providing a 6" diameter lap of A-305 reinforcing bars is a conservative lap value chosen because of the severe type of loading that the structure will be subjected to. Lap lengths vary for this type of reinforcement depending on the diameter of the bar. The diameter of the bars is 1/2" diameter.
- d. The structural effect of conduit cables in reinforced concrete is normally negligible when the nominal diameter of the conduit is small compared to the thickness of the wall.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	CLASSIFICATION (RULE NUMBER(S))
SINGLE REVIEW AUTHORIZED BY	CLASSIFICATION RETAINED
AAJ A/Sgall 1-23-54	CLASSIFICATION CHANGED TO
REVIEWER (ADD):	COORDINATE WITH
NAME: W. L. ...	CLASSIFICATION CANCELLED
DATE: 7/19/84	CLASSIFIED INFO BRACKETED

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