SARGENT & LUNDY ENGINEERS	Calcs. For ALLOWABLE FLOOD HEIGHTS VS. POSTULATED FLOOD HEIGHTS PER ZONE	Calc. No. SF-OP-01.7
	X Safety-Related / Non-Safety-Related	Rev 01 Date
		Page 7.0.1 of

Client T.V.A.		Prepared by [signature]	Date 2-13-87
Project WATTS BAR 1&2		Reviewed by [signature]	Date 03-18-87
Proj. No. 7797-00	Equip. No.	Approved by	Date

GENERAL DISCUSSION

THE PURPOSE OF THIS SECTION IS TO SUMMARIZE THE GOVERNING ALLOWABLE FLOOD HEIGHTS PER ZONE DETERMINED FROM THE ANALYSIS OF SLABS, WALLS, AND MISCELLANEOUS STEEL ENCLOSURES PER SECTIONS 4, 5, & 6 RESPECTIVELY. AND TO DETERMINE THE STRUCTURAL ACCEPTIBILITY OF EACH ZONE TO RESIST FLOOD LEVELS BY COMPARING THE GOVERNING ALLOWABLE FLOOD HEIGHT TO THE POSTULATED M.E.L.B. FLOOD HEIGHT RECORDED IN D.I.T. WBO-MNO-0023 AND REVISIONS THEREOF (REF. SECTION 3 FOR INFO.)

IF THE POSTULATED FLOOD IN A ZONE IS LESS THAN THE GOVERNING ALLOWABLE FLOOD HEIGHT, THE FLOOD ZONE IS CONSIDERED STRUCTURALLY ADEQUATE TO RESIST FLOOD LEVELS AND SHALL BE DESIGNATED AS "O.K.".

IF THE POSTULATED FLOOD LEVEL EXCEEDS THE GOVERNING ALLOWABLE FLOOD HEIGHT IN A PARTICULAR ZONE, THEN THE FLOOD ZONE SHALL REQUIRE EITHER A FLOOD LEVEL REDUCTION OR A STRUCTURAL REFINED ANALYSIS. IF APPLICABLE, BOTH METHODS OF REFINEMENT MAY BE REQUIRED. IN EITHER CASE THE ZONES SHALL BE DESIGNATED AS "REQUIRING A REFINED ANALYSIS"

THE STRUCTURAL REFINED ANALYSIS SHALL BE FILED IN CALCULATION BOOK SF-OP-02; BRANCH/PROJECT IDENTIFIER No. WCG-1-278.

Form GQ-3.08.1 Rev. 2 SL-F647 10-85 KPS

9207070094 920630
PDR ADOCK 05000390
A PDR

Zone	Controlling Allowable Flood Heights (in) See Note 1				Flood Levels Per D.I.T.-WBO-MNO-0023 Revisions								Remarks
	S	CW	MW	GOV.	3	5							
737.1-A13	65.4	92.8	—	65.4	23	23							OK
A14	↓	92.8	—	65.4	12	12							OK
A15		124.3	—	65.4	23	23							OK
A16		124.3	—	65.4	84' (Full)	Full							refined analysis req'd for slab.
757.9-A1	98.1	68.3	—	68.3	0	2							OK
A2	↓	68.3	—	68.3	2	2							OK
A3		68.3	—	68.3	2	2							OK
A4		68.3	—	68.3	2	2							OK
A5		68.3	—	68.3	2	2							OK
A9	↓	68.3	—	68.3	2	2							OK
A10	65.4	92.8	—	65.4	9	9							OK
A11	163.5	201.3	—	163.5	11	11							OK

Notes: 1) Refer to sections 4 & 5 for Values. S=Slabs, CW=Concrete Walls, MW=Masonry Walls, & Gov.=Governing Flood Height Per Zone.

SARGENT & LUNDY ENGINEERS

Client T.V.A.
Project WATTS BAR 1 & 2
Proj. No. 7797-00 Equip. No.

Calcs. For Allowable Flood Heights
VS. Postulated Flood Heights Per Zone
X Safety-Related
Non-Safety-Related

Prepared by Date 03-18-87
Reviewed by Date 3-21-87
Approved by Date

Calc. No. SF-OP-01.7
Rev. 1 Date
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ATTACHMENT 8
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