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NINE MILE POINT NUCLEAR STATION      Unit (1, 2 or 0=Both) : 1      Discipline : **STRUCTURAL**

Title EDG FUEL OIL TANK REPLACEMENT	Calculation No. S20.6-YD-TANK01	Rev 00	Disp 00B
	Originator CARMEN R. AGOSTA <i>A</i>	Date 7/8/97	

(Sub)System(s) 82	Index No. S20.6	Checker <i>Mohammed Alvi</i>	Date 7-8-97
Design Change No. NA		Approver <i>Mohammed Alvi</i>	Date 7-8-97

NMPC Acceptance/Date: NA / 1

Superseded Document(s) : NONE

**Description of Change**  
TANK-82-43 WAS EVALUATED USING THE GENERIC IMPLEMENTATION PROCEDURE (GIP) SCREENING EVALUATION WORK SHEETS (SEWS). THE EVALUATION REFERENCED THIS CALCULATION.

**Resolution**  
ADD THE 82-43 SEWS TO THIS CALCULATION.

**Cross Reference change(s):**  
NONE

Confirmation Required (Yes / No) : Yes See Page(s) : _____	Final Issue Status ( APP / FIO / VOI ) : APP	File Location ( Calc / Hold ) : Calc	Operations Acceptance Req'd. ( Yes / No ) : Yes
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Evaluation Number(s) / Revision : NR Copy of Applicability Review Attached (Yes / N/R)? N/R
Key Words : NMP-1, STRUCTURAL, SQUG, SEWS, SEISMIC VERIFICATION

Component ID(s) / EPN(s) / Line Number(s) :  
TANK-82-43  
TANK-82-44



Nine Mile Point Nuclear Station

Unit: 1

Disposition: 00B

Originator/Date

CA / 7-8-97

Checker/Date

M.A 7-8-97

Calculation No.

S20.6-YD-TANK01

Revision

00

Ref.

**PURPOSE:** Document the Screening Evaluation Work Sheets (SEWS) for the DG FUEL OIL STORAGE TANK #103, EQUIPMENT NUMBER 82-43.

This SEWS has been prepared as part of the commitment to use the SQUG (GIP) methodology to document the seismic adequacy of SSEL components.

**CONCLUSION:** Calculation S20.6-YD-TANK01 analyzed this tank for the design basis load combination of DL + seismic + variable tank fill. Therefore, the DG Fuel Oil Tank is seismically adequate.

**ATTACHMENTS**

- A. SEWS for Equipment ID Number 82-43.



SCREENING EVALUATION WORK SHEET (SEWS)

Sheet 1 of 2

Equip. ID No. 82-43 Equip. Class 21 - Tanks and Heat Exchangers  
Equipment Description DG FUEL OIL STORAGE TANK # 103  
Location: Bldg. YARD Floor El. 261 Room, Row/Col D:20  
Manufacturer, Model, Etc. (optional) \_\_\_\_\_

SHELL CAPACITY VS DEMAND

Buckling capacity of shell of large, flat-bottom, vertical tank is equal to or greater than demand:

Y N U N/A

TANK IS HORIZONTAL & BURIED

ANCHOR BOLTS AND EMBEDMENT

Capacity of anchor bolts and their embedments is equal to or greater than demand:

Y N U N/A

HOLD DOWN STAPLS & WILLIAM ROCK ANCHORS ARE DESIGNED IN CALC. 520.6-YD-TANK01

CONNECTION BETWEEN ANCHOR BOLTS AND SHELL

Capacity of connections between the anchor bolts and the tank shell is equal to or greater than the demand:

Y N U N/A

FLEXIBILITY OF ATTACHED PIPING

Attached piping has adequate flexibility to accommodate motion of large, flat-bottom, vertical tank:

Y N U N/A

TANK FOUNDATION

Ring-type foundation is not used to support large, flat-bottom, vertical tank:

Y N U N/A

IS EQUIPMENT SEISMICALLY ADEQUATE?

Y N U



ATTACHMENT  
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SCREENING EVALUATION WORK SHEET (SEWS)

Revision 2, Corrected, 6/28/91  
Sheet 2 of 2

Equip. ID No. 82-43 Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description \_\_\_\_\_


COMMENTS

NMPC CALCULATION S20.6-YD-TANK 01, REV.0, ANALYZED THE FOLLOWING:

TANK IS DESIGNED TO:  $a_H = 0.13g$  (PAGE 21)  
 $a_V = 0.067g$

PIPING IS DESIGNED TO ASME SECTION III FOR OPERATING, THERMAL & SEISMIC LOADS (PAGE 110)

NOZZLE LOADS ARE BELOW ALLOWABLE LOADS (PAGE 129)

Evaluated by:   
Mohammed Alvi

Date: 10/3/95  
10/4/95

