Enclosure II

PE-5-033 Revision 1

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1.0 PURPOSE

- 1.1 This procedure provides the methods for verifying the Nuclear Plant Island Structure (NPIS) foundation basemat integrity through the following:
 - 1.1.1 Mersurement of the foundation basemat settlement at least once per 92 days.
 - 1.1.2 Measurement of four (4) instrumented basemat cracks at least once per 92 days.
 - 1.1.3 Inspection of the accessible areas of the foundation basement and selected walls for cracks at least once per 18 months.
- 1.2 This procedure meets the Technical Specification requirements listed in section 2.1.

NOTE

The surveillance interval for items 1.1.1 and 1.1.2 will be lengthened provided no significant changes are observed and no adverse or unexplained data has been obtained. Three consecutive, satisfactory surveillances are required to extend the interval to the next interval stated below. The intervals are (as used within the Tech. Specs):

- Q At least once per 92 days
- SA At least once per 184 days
- A 12 months
- R At least once per 18 months.

Surveillance Procedure NPIS Foundation Basemat Integrity Check

2.0 REFERENCES

- 2.1 Technical Specifications, 6.8.4e
- 2.2 Harstead Engineering Assoc. Inc., Report No. 8304-1 dated September 19, 1983; Analysis of Cracks and Water Seepage in Foundation Mat
- 2.3 FSAR
 - 2.3.1 Section 2.5.4.13, Subsurface Instrumentation Program-Piezometers (Amend. No. 33)
 - 2.3.2 Section 2.5.4.13.3, NPIS Settlement (Amend. No. 34)
 - 2.3.3 Section 2.5.4.13.4, Post Construction NPIS Monitoring (Amend. No. 34)
 - 2.3.4 Figure 2.5-112a, Long Term Settlement Point Locations (Amend. No. 17)
 - 2.3.5 Figure 2.5-112, Instrument Plot Plan
 - 2.3.6 Figure 2.5-117, Composite Foundation Mat Settlement (Amend. No. 34)

2.4 Plant Drawings

- 2.4.1 1564-G-489; General Excavation Plan & Sections
- 2.4.2 1564-G-765 S02, Fuel Handling and Reactor Aux. Bldg. FL. PL. EL. -35.0
- 2.4.3 1564-G-499 SO1, 2 & 3, Common Foundation Structure Masonry
- 2.4.4 SK 1564-15.10-G-34.1, Composite Foundation Mat Settlement

- 2.4.5 LP&L DWG Nos. G-C-0003 thru 0006, Base Mat Crack Maps
- 2.4.6 HP-SM-51 thru 65, HP-SM-77; Radiation/Contamination Survey Forms for the -35 Elev.
- 2.4.7 LOU 5234.016, Wall Crack Maps
- 2.5 Plant Procedures
 - 2.5.1 HP-1-110, Radiation Work Permits
 - 2.5.2 UNT-5-002, Condition Identification and Work Authorization
- 2.6 Ebasco Procedure CP-321, Project Survey Monument Control
- 2.7 Letter, W3P85-0464, K.W. Cook to G.W. Knighton dated February 25, 1985
- 2.8 LCIWA-008724, Baseline Elevation Data

3.0 PREREQUISITES

- 3.1 The services of a Professional Land Surveyor shall be secured for performance of section 8.2.
- 3.2 Obtain a Radiation Work Permit in accordance with HP-1-110, if required.
- 3.3 At least one set of prints of Reference 2.4.5, Base Mat Crack Maps and Reference 2.4.6, Survey Forms are available for performing the inspection in section 8.1.

4.0 PRECAUTIONS AND LIMITATIONS

NONE

5.0 INITIAL CONDITIONS

- 5.1 This procedure may be performed in any operational mode as required.
- 5.2 The SS/CRS has authorized performance of this procedure and has signed the Task Card(s).

6.0 MATERIAL AND TEST EQUIPMENT

		Male Numbers
6.1	Surveying equipment necessary to run a first order survey	<u> </u>
6.2	Bausch & Lomb measuring magnifier, cat. no. 81-34-35, or other equivalent measuring device.	
6.3	Whittemore multi-position strain gage, or equivalent with accessories (contact points, contact seats and invar master bar).	
6.4	35 mm camera and film	
6.5	Check-it digital pyrometer model 402 or equivalent.	

Surveillance Procedure NPIS Foundation Basemat Integrity Check

7.0 ACCEPTANCE CRITERIA

- 7.1 No cracks greater than 15 mils (.015 inches) are visible in the accessible areas of the basemat surface.
- 7.2 The measured differential settlement of the common foundation basemat does not exceed one(1) inch.
- 7.3 Measured changes in the instrumented cracks are less than or equal to 15 mils (.015 inches).
- 7.4 No cracks greater than 15 mils are visible in the shield building and wet cooling tower exterior walls selected for inspection.

8.0 PROCEDURE

- 8.1 NPIS FOUNDATION BASEMAT CRACK MONITORING
 - 8.1.1 An inspection of the floor in each room/area listed in Attachment 10.1 shall be made.

NOTE

The RAB and FHB floors on -35 ft. elevation have had an epoxy coating applied. Any cracking and/or spalling observed during performance of this section may only be paint. Therefore a determination shall be made for each observation as to whether the concrete and coating or just coating are effected. Defects in just the coating though not germane to this surveillance, may warrant further considerations from a Health Physics/contamination standpoint. Therefore, at the inspector's option, coating defects will be recorded and forwarded to the appropriate individuals.

Surveillance Procedure NPIS Foundation Basemat Integrity Check

NOTE

If any crack is found to exceed 15 mils, contact the SS/CRS. Following notification, complete the basemat inspection.

NOTE

On the recommendation of Health Physics, a room/area may be ommitted from a given surveillance for radiological reasons.

NOTE

To obtain an accurate crack width measurement, it may be necessary to clean, buff and/or grind the concrete surface. This will be done at the discretion of Plant Engineering to facilitate the inspection.

Initial/Date

- 8.1.2 Inspect each room/area and:
 - 8.1.2.1 Verify that each crack identified and mapped on Reference 2.4.5 is less than or equal to 15 mils.

 Record any crack that has exceeded 15 mils on Attachment 10.2.

8.1.2.2	Record any new cracks (cracks not	
	previously identified on the draw-	
	ings of Reference 2.4.5) whose	
	width exceeds 15 mils on Attachment	
	10.2 or Reference 2.4.6.	

8.1.3 Acceptance Criterion 7.1 has/has not (circle one) been met.

Verified	By:			
		Signature	Date	

NOTE

If the acceptance criterion has not been met; i.e., there are cracks greater than 15 mils in width, contact the SS/CRS. An engineering evaluation must then be performed to determine the effects, if any, on the structural integrity of the NPIS Common Foundation Basement.

8.1.4 Based on the engineering evaluation, the basemat has been determined operable.

Verified	By:			
		Signature	Date	

- 8.1.5 A copy of the engineering evaluation shall be attached to this procedure.
- 8.2 NPIS FOUNDATION BASEMAT SETTLEMENT MEASUREMENTS

NOTE

All measurements shall be taken to the nearest 0.001 ft. Loops shall close within 0.01 ft.

8.2.1 Starting at the Master Fenchmark (see
Attachment 10.4), determine the elevation
of supplementary benchmarks SBM-1, 2 & 3
and record the data on Attachment 10.5.
(Optional at Surveyor': Discretion)

NOTE

The additional basemat monitoring points shown on Attachment 10.4, Sht. 2, are non-mandatory; but they are highly desired for evaluation purposes. The optional basemat monitoring points shown on Attachment 10.4, Sht. 3, may be done at the discretion of plant engineering. Data will be recorded on Attachment 10.5, Sht. 3.

8.2.2 Using the Master Benchmark and/or SBM-1,
2 or 3, determine the elevation of the
settlement points shown on Attachment
10.4, shts. 1 and 2. Record the elevations
on Attachment 10.5, shts. 1 & 2.

	shall be attached to this procedure.	
8.2.4		
	calculate the Common Foundation Basemat	
	Differential Settlement on Attachment 10.7.	
8.2.5	Compare the calculated differential of	
	Attachment 10.7 with the corresponding	
	baseline differential on Attachment 10.6.	
	Record the difference, if any, on Attachment	
	10.8	
8.2.6	Verify each value on Attachment 10.8 is	
	less than or equal to one(1) inch	
	(.083 ft.).	
8.2.7	Acceptance Criterion 7.2 has/has not (circle one) been met.	
	Verified By:	

Date

NOTE

Signature

Surveillance Procedure
NPIS Foundation Basemat
Integrity Check

Initial/Date

NOTE

If the difference between any calculated and baseline value exceeds one(1) inch (.083 ft.), contact the SS/CRS. An engineering evaluation must then be performed to determine the effects, if any, on the structural integrity of the NPIS Common Foundation Basemat.

8.2.8 Based on the engineering evaluation, the basemat has been determined operable.

Verified	By:		
		Signature	Date

- 8.2.9 A copy of the engineering evaluation shall be attached to this procedure.
- 8.3 Crack Width Monitoring

NOTE

Four (4) basemat (2 in the East Cooling Tower Area and 2 in the West Cooling Tower Area) have been instrumented for monitoring changes in crack width. Brass inserts are installed on each side of the selected cracks at a known distance (See Attachment 10.9). This distance is checked periodically for change using a multi-position (Whittemore type) strain gage.

8.3.1	Obtain the following equipment to make the required measurements:
	1. Multi-position strain gage
	2. Ivar master bar
	3. Contact points
	4. Contact seats
	5. Contact pyrometer
8.3.2	Remove the brass insert protective cover
	plate from each crack.
8.3.3	Using the strain gage, measure the distance
	between each set of brass inserts (See
	Attachment 10.9).
8.3.4	Record the data on Attachment 10.10.
8.3.5	After the measurements have been taken,
	replace the protective cover plates.
8.3.6	Compare the present measurements to the
	baseline data on Attachment 10.10.

NOTE

If the difference between measured and baseline data exceeds 15 mils, consider performing an evaluation taking into account thermal effects due to the differences in concrete temperature at which the baseline and measured data were obtained.

- 8.3.7 Verify that the difference between the baseline and measured distance is less than or equal to 15 mils (.015 inches).
- 8.3.8 Acceptance Criteria 7.3 has/has not (CIRCLE ONE) has been met.

 Verified by

SIGNATURE

DATE

8.3.9 If any measurements exceeds 15 mils, notify the SS/CRS. If not already being done, concurrently perform sections 8.1 and 8.2.

NOTE

An engineering evaluation may be required depending on the results of Section 8.1 and 8.2.

8.3.10 Based on the information obtained from the completion and evaluation of sections
8.1 & 8.2, the basemat has been determined operable.

DATE

Surveillance Procedure NPIS Foundation Basemat Integrity Check

Initial/Date

8.4 WALL INSPECTION

NOTE

During a prelicense meeting the NRC, NRC Consultant Brookhaven Labs, Ebasco and LP&L discussed and agreed there was no correlation between existing wall and basemat cracks. However, the NRC requested periodic inspection of the wall cracks. In compliance with this request, LP&L has selected sections of the shield building and Wet Cooling Tower Exterior Walls in proximity to the basemat to be periodically inspected. Existing cracks in these selected areas were mapped and these sketeches (reference 2.4.7) will be used as baseline data.

NOTE

A photographic survey of the walls is not mandatory, but is desired.

- 8.4.1 An inspection/photographic survey of each wall identified in Attachment 10.11 shall be made. The inspection/photographic survey area shall be limited to a height of 8' -0 off the basement.
- 8.4.2 Verify that each crack identified and mapped on Reference 2.4.7 is less than or equal to 15 mil.

8.4.3 Record any new cracks (cracks not previously identified on the drawings of Reference 2.4.7), whose width exceeds 15 mils, on Attachment 10.2.

NOTE

If the Acceptance Criteria has not been met, notify the SS/CRS.

8.4.4 Acceptance Criterion 7.4 has/has not (CIRCLE ONE) been met.

Verified By:

SIGNATURE

DATE

NOTE

If the acceptance criteria has not been met, a determination will be made as to whether the wall cracks in excess of 15 mils resulted from basemat movement/deterioration or some other anomaly.

8.4.5 If the acceptance criteria in sections 8.1, 8.2 and 8.3 has been met, the wall cracking can be attributed to a source other than the basemat. The crack information shall therefore be forwarded to ENS for evaluation and/or corrective action. No further action under this surveillance will be required.

8.4.6 If the acceptance criteria in sections 8.1,
8.2 or 8.3 were not met, there may be a
correlation between that and the wall
cracking. This shall be addressed in the
engineering evaluation.

8.5 DATA DISPOSITION

8.5.1 A copy of this procedure, observations, photographs, and measurements obtained has been submitted to ENS, for evaluation and inclusion in the 18-month special report.

9.0 SETPOINTS

NONE

10.0 ATTACHMENTS

- 10.1 Room/Area Inspection List
- 10.2 Area/Room/Wall Inspection Data Sheets
- 10.3 NPIS Foundation Basemat Monitoring Point Baseline Data
- 10.4 Settlement Point Locations
- 10.5 Elevation Measurements
- 10.6 Basement Edge to Shield Building Baseline Differential Calculation
- 10.7 Basement Adge to Shield Building Differential Calculation Sheet

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- 10.8 Differential Settlement Results Sheet
- 10.9 General Arrangement of Instrumented Cracks
- 10.10 Crack Width Monitoring Data Sheet
- 10.11 Wall Inspection List
- 10.12 Wall Identification and Location

ROOM/AREA INSPECTION LIST

		REPORTABLE	
		FINDINGS	INSPECTION COMPLETED
ROOM/AREA#	ROOM/AREA NAME	YES - NO	INITIAL/DATE
		(circle one)	
B1	Corridor	Y - N	
B5	Pump Area	Y - N	
В6	Gas Decay Tank B	Y - N	
B7	Gas Decay Tank AB	Y - N	
B8	Gas Decay Tank A	Y - N	
В9	Waste Gas Comp. A	Y - N	
B10	Waste Gas Comp. B	Y - N	
B11	Gas Surge Tank	Y - N	
B12	Eq. Drain & Sump Pumps	Y - N	
B15	SI Pump Rm. A	Y - N	
B16	SI Pump Rm. B	Y - N	
B17	Corridor	Y - N	
B20	S/D Cooling Hx B	Y - N	
B22	Waste Tank Rm. B	Y - N	
B23	Waste Pump Rm. A	Y - N	
B24	Waste Tank Rm. A	Y - N	
B25	Waste Pump Rm. B	Y - N	
B26	Laundry Tank Rm.	Y - N	
B31	Waste Cond. Tanks	Y - N	
B32	Waste Cond. Pumps	Y - N	
B39	Holdup Pump A	Y - N	
B40	Holdup Pump B	Y - N	
B41	Holdup Recirc Pump	Y - N	
B45	BA Condensate Tanks	Y - N	
B48	S/D Cooling Heat HX A	Y - N	
B49	Turb. Driven Aux. F.W. Pump	Y - N	
B49A	Aux. F.W. Pump A	Y - N	
B49B	Aux. F.W. Pump B	Y - N	
B50	Diesel Stor. Tk. A	Y - N	

ROOM/AREA INSPECTION LIST

ROOM/AREA#	ROOM/AREA NAME	REPORTABLE FINDINGS YES - NO (circle one)	INSPECTION COMPLETED INITIAL/DATE
B51	Sanitary Eq.	Y - N	
B52	Diesel Ster. Tk. B	Y - N	
B53	Vault Area	Y - N	
B56	East Vault Area	Y - N	
B57	West Vault Area	Y - N	
B58	FHB Sub Basement	Y - N	
B59	Cooling Tower Area A	Y - N	
B59A	Cooling Tower Area B	Y - N	
B60	Wet Cooling Tower A	Y - N	
B60A	Wet Cooling Tower B	Y - N	
	s B13, B46 and B47 have be ation conditions.	en omitted becaus	e of expected high
OMMENTS:			

AREA/ROOM/WALL INSPECTION DATA SHEET

INSPECTION PER	FORMED BY	

NOTE: Locate walls, doors, stairs, equipment, column lines on sketch for orientation purposes.

AREA/ ROOM/ WALL NO.	REMARKS			
A CONTRACTOR OF THE PARTY OF TH				
		Signature	Date	

NPIS FOUNDATION MONITORING POINT BASELINE DATA

TECH. SPEC.	
MONITORING POINTS	ELEVATION (Ft.)
A (SP-C5)	25.385
B (SP-C6)	22.269
SE (SP-M1)	20.953
NE (SP-M2)	20.969
NW (SP-M3)	20.961
SW (SP-M4)	23.922
E1 (SP-M5)	21.387
E2 (SP-M6)	20.987
W1 (SP-M7)	24.306
W2 (SP-M8)	24.294
OPTIONAL MONITORING POINTS	
SP-C1	-30.548
SP-C2	24.963
SP-C3	24.954
SP-C4	24.965
SP-M9	-35.286
SP-M10	-35.440
SP-M11 (No Longer Used)	
SP-M11A	(LATER)
SP-M12	-35.293
SP-M13	-35.288
SP-A	-35.420
SP-B	-35.369
SP-C	-35.502
SP-D	-35.606
SP-E	-35.464
SP-F	-35.438

NPIS FOUNDATION MONITORING POINT BASELINE DATA

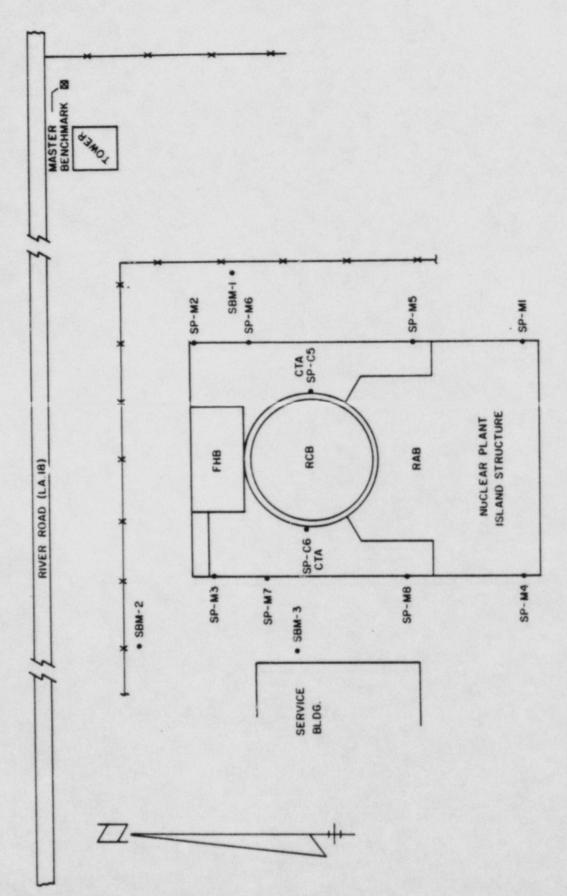
ΔD	nт	TI	$\cap N$	AL
nu	n1	11	Olf	ur

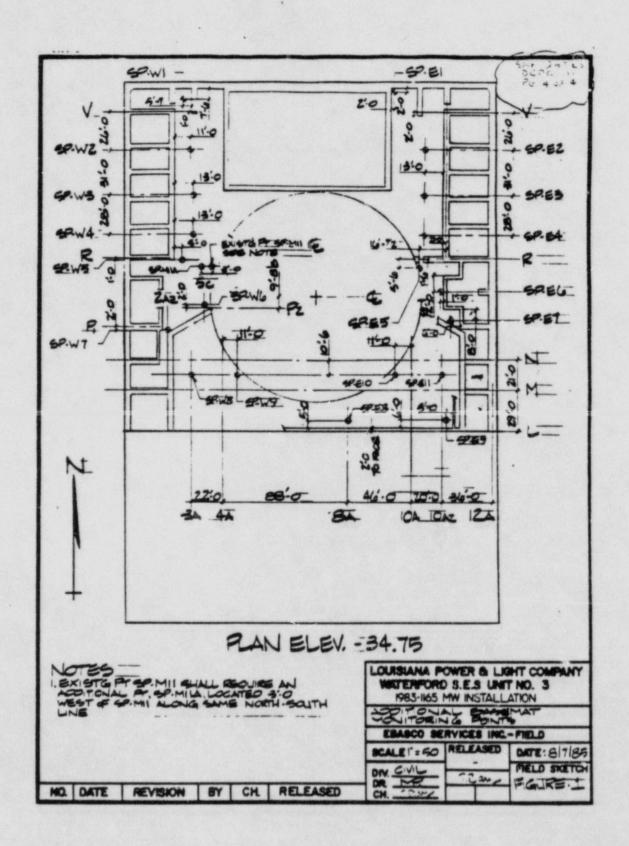
ADDITIONAL	
MONITORING POINTS	ELEVATION
SP-E1	(LATER)
SP-E2	(LATER)
SP-E3	(LATER)
SP-E4	(LATER)
SP-E5	(LATER)
SP-E6	(LATER)
SP-E7	(LATER)
SP-E8	(LATER)
SP-E9	(LATER)
SP~E10	(LATER)
SP-E11	(LATER)
SP-W1	(LATER)
SP-W2	(LATER)
SP-W3	(LATER)
SP-W4	(LATER)
SP-W5	(LATER)
SP-W6	(LATER)
SP-W7	(LATER)
SP-W8	(LATER)
SP-W9	(LATER)

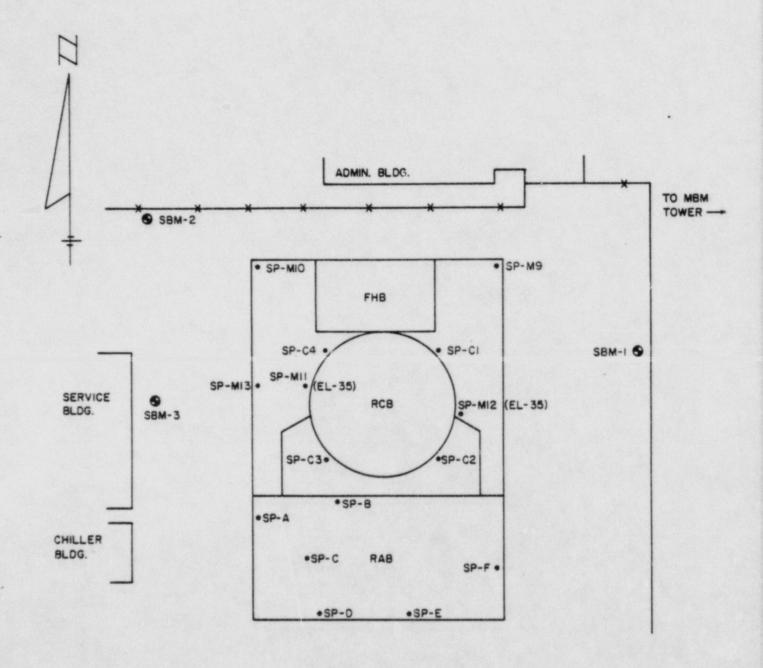
MONITORING POINTS LOCATIONS
(TECH. SPEC. MONITORING POINTS)

MONITORING POINT LOCATIONS (ADDITIONAL MONITORING POINTS)

MONITORING POINT LOCATIONS (OPTIONAL MONITORING POINTS)







MONITORING POINT LOCATIONS

POINT	COORDINATES		
SP-C1	N4304.50	W3770.50	
SP-C2	N4195.50	W3770.50	
SP-C3	N4195.50	W3879.50	
SP-C4	N4304.50	23879.50	
SP-M1	N4029.00	W3699.00	
SP-M2	N4391.00	W3699.00	
SP-M3	N4377.00	W3959.00	
SP-M4	N4029.00	W3959.00	
SP-M5	N4179.00	W3699.00	
SP-M6	N4313.50	W3699.00	
SP-M7	N4288.00	W3959.00	
SP-M8	N4179.00	W3959.00	
SP-M9	N4395.50	W3703.00	
SP-M10	N4396.00	W3955.00	
SP-M11 (No Longer Use)	N	W3900.00	
SP-M11A	N(LATER)	W(LATER)	
SP-M12	N4240.00	W3747.00	
SP-M13	N4271.00	W3955.00	
SP-A	N4132.25	W3953.17	
SP-T	N4151.50	W3870.50	
SP-C	N4088.17	W3902.00	
SP-D	N4033.00	W3891.00	
SP-E	N4027.50	W3799.75	
SP-F	N4079.50	W3707.33	
SP-C5	N4240.00	W374".00	
SP-C6	N4270.00	W390J.00	

MONITORING POINT LOCATIONS

POINT	COORDINATES			
SP-E1	N(LATER)	W(LATER)		
SP-E2	N(LATER)	W(LATER)		
SP-E3	N(LATER)	W(LATER)		
SP-E4	N(LATER)	W(LATER)		
SP-E5	N(LATER)	W(LATER)		
SP-E6	N(LATER)	W(LATER)		
SP-E7	N(LATER)	W(LATER)		
SP-E8	N(LATER)	W(LATER)		
SP-E9	N(LATER)	W(LATER)		
SP-E10	N(LATER)	W(LATER)		
SP-E11	N(LATER)	W(LATER)		
SP-W1	N(LATER)	W(LATER)		
SP-W2	N(LATER)	W(LATER)		
SP-W3	N(LATER)	W(LATER)		
SP-W4	N(LATER)	W(LATER)		
SP-W5	N(LATER)	W(LATER)		
SP-W6	N(LATER)	W(LATER)		
SP-W7	N(LATER)	W(LATER)		
SP-W8	N(LATER)	W(LATER)		
SP-W9	N(LATER)	W(LATER)		

ELEVATION MEASUREMENTS (TECH. SPEC. BASEMAT MONITORING POINTS)

Master Benchmark El. +15.875 ft.

Moni	toring Point	Elevation
1.	SBM-1 (Optional)	
2.	SBM-2 (Optional)	
3.	SBM-3 (Optional)	
4.	A (SP-C5)	
5.	B (SP-C6)	
6.	SE (SP-M1)	
7.	NE (SP-M2)	
8.	NW (SP-M3)	
9.	SW (SP-M4)	
10.	E1 (SP-M5)	
11.	E2 (SP-M6)	
12.	W1 (SP-M7)	
13.	W2 (SP-M8)	

Type Instru	ument Used			
Instrument	Serial No.			
Elevations	Determined	by:		
			Signature	Date

ELEVATION MEASUREMENTS (ADDITIONAL BASEMAT MONITORING POINTS)

MONI	TORING POINT	ELEVATION
1.	SP-E1	
2.	SP-E2	
3.	SP-E3	
4.	SP-E4	
5.	SP-E5	
6.	SP-E6	
7.	SP-E7	
8.	SP-E8	
9.	SP-E1	
10.	SP-E10	
11.	SP-E11	
12.	SP-W1	
13.	SP-W2	
14.	SP-W3	
15.	SP-W4	
16.	SP-W5	
17.	SP-W6	
18.	SP-W7	
19.	SP-W8	
20.	SP-W9	

Type Instru	ument Used			
Instrument	Serial No.			
Elevations	Determined	by:		
			Signature	Date

ELEVATION MEASUREMENTS

(OPTIONAL BASEMAT MONITORING POINTS)

Monitoring Point	Elevation (ft.)
SP-C1	
SP-C2	
SP-C3	
SP-C4	
SP-M9	
SP-M10	
SP-M11 (No Longer Used)	(In Accessible)
SP-M11A	
SP-M12	
SP-M13	
SP-A	
SP-B	
SP-C	
SP-D .	
SP-E	
SP-F	

Type Instru	ument Used				
Instrument	Serial No.				
Elevations	Determined	by:			
			Signature	Date	

BASEMAT EDGE TO SHIELD BUILDING BASELINE DIFFERENTIAL CALCULATION

Monitoring Points		Baseline Elevations		Resultant
A(SP-C5) - SE(SP-M1)	-	25.385 - 20.953	=	4.432 ft.
A(SP-C5) - NE(SP-M2)	=	25.385 - 20.969		4.416 ft.
B(SP-C6) - NW(SP-M3)	=	22.269 - 20.961	=	1.308 ft.
B(SP-C6) - SW(SP-M4)	=	22.269 - 23.922		1.653 ft.
A(SP-C5) - E1(SP-M5)	=	25.385 - 21.387	=	3.998 ft.
A(SP-C5) - E2(SP-M6)	=	25.385 - 20.987	=	4.398 ft.
B(SP-C6) - W1(SP-M7)	=	22.269 - 24.306	=	2.037 ft.
B(SP-C6) - W2(SP-M8)	-	22.269 - 24.294	=	2.025 ft.

BASEMAT EDGE TO SHIELD BUILDING DIFFERENTIAL CALCULATION SHEET

Elevations

Monitoring Points	From Attachment 10.5	Resultant
A-SE _		
A-NE _		
B-NW _		
B-SW _		=
A-E1		=
A-E2	-	=
B-WI -		=
B-W2		

DIFFERENTIAL SETTLEMENT RESULTS SHEET

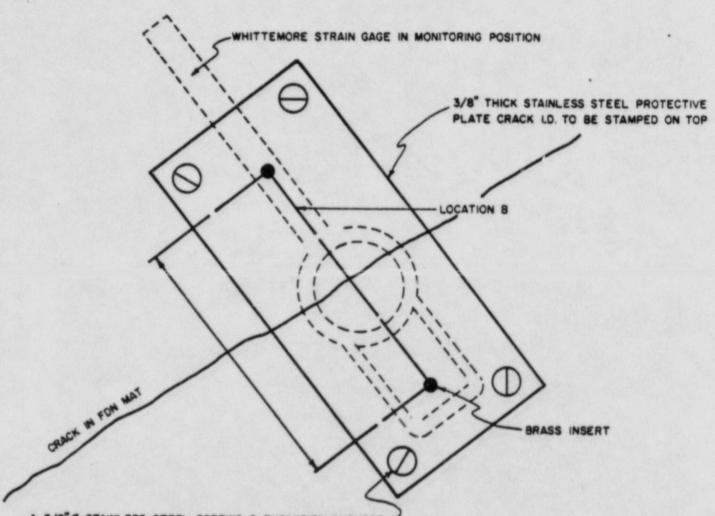
	Difference Between The
	Baseline (Attach. 10.6) and
	Calculated (Attach. 10.7)
Monitoring Points	Resultants
A-SE	
A-NE	
B-NW	
B-SW	
0-0"	
A-E1	
A-E2	
B-W1	
B-W2	

Note: One (1) inch = .083 ft.

GENERAL ARRANGEMENT OF INSTRUMENTED CRACKS

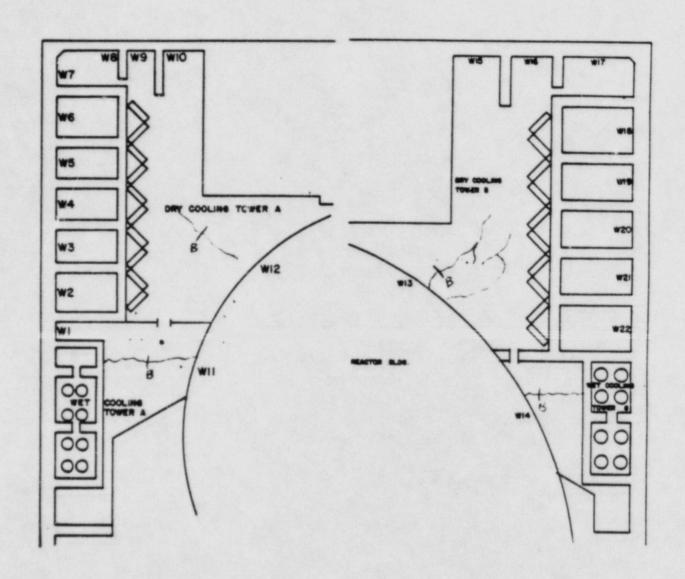
GENERAL ARRANGEMENT
OF INSTRUMENT CRACKS
(LOCATIONS)

GENERAL ARRANGEMENT OF INSTRUMENTED CRACKS



4-3/8" STAINLESS STEEL SCREWS & EXPANSION ANCHORS SIMILAR TO "DETAIL OF BENCHMARK ON FOUNDATION MAT-EXHIBIT NO. 2"

GENERAL ARAANGEMENT OF INSTRUMENTED CRACKS (LOCATIONS)



CRACK WIDTH MONITORING DATA SHEET

(1) BASELINE (R	EF.) DATA DISTANCE BETWEEN BRASS BRASS INSERTS (INCHES)	AMBIENT TEMP	CONCRETE
(LATER) (LATER)	(LATER) (LATER)	(LATER) (LATER)	(LATER)
(LATER)	(LATER)	(LATER)	(LATER)
(LATER)	(LATER)	(LATER)	(LATER)
(2) MEASURED DA			
CRACK	DISTANCE BETWEEN BRASS BRASS INSERTS (INCHES	AMBIENT TEMP	CONCRETE TEMP
(LATER)			
(LATER)	DIFFERENCE (2) - (1)	ACCEPT	REJECT
(LATER)			
(LATER)		1	
OMMENTS:			
YPE INSTRUMENT	USED.		
&TE NO.	OJED.		
EASUREMENTS DE	TERMINED BY:		
	SIGNATURE		DATE

WALL INSPECTION LIST

WALL #	INSPECTION COMPLETED	PHOTOGRAPHIC SURVEY COMPLETED
	INITIAL/DATE	INITIAL/DATE
W1		
W2		
W3		
W4		
W5		
W6		
W7		
W8		
W9		
W10		
W11		
W12		
W13		
W14		
COMMENTS		

