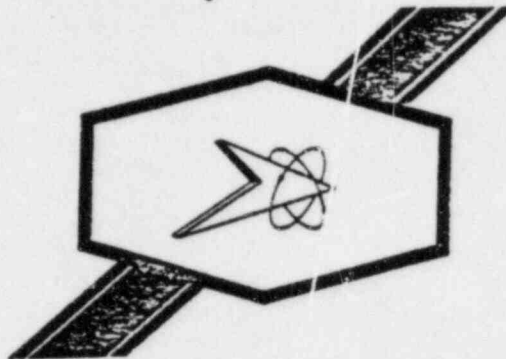


# Imperial



## TECHNICAL REPORT

NUMBER

210-77

TITLE

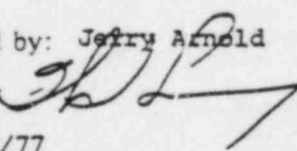
NUTEC 11/12 TIC 1201  
Design Basis Accidents for Wechtel CP 956

FOR

ICC

CUSTOMER

Submitted by: Jeffrey Arnold

Approved: 

Date: 12/77

SOUTHERN IMPERIAL COATINGS CORPORATION, INC.  
P. O. Box 29077, • New Orleans, Louisiana 70189  
Phone: (504) 254-1433

The information contained in this report, based upon our experience, is offered without charge as part of our service to customers. It is intended for use by persons having technical skill, at their own discretion and risk. We assume no liability in connection with its use. This information is not intended as a license to operate under, nor a recommendation to infringe, any patent covering any material or use.

8511060090 851016  
PDR FOIA  
GARDEB5-59 PDR

DBA AND RADIATION TOLERANCE

TEST PANEL PREPARATION DATA

1. PRODUCT TO BE TESTED: NUTEC 11/REACTIC 1201
2. TYPE SUBSTRATE: Concrete SIZE: 2" x 4" x 2"
3. SURFACE PREPARATION (Describe): All surfaces sandswept with Cresblast #4 blasting sand.
4. PRODUCT DATA: SAMPLE NO.(s): 3530
5. DATE AND TIME CURING COMPOUND OR PRIMER APPLIED: N/A

COAT	PRODUCT	PRODUCT CODES	BATCH #	APPLICATION METHOD	CONDITIONS R/M(°F)%R.H.	THICKNESS (ins.)	TIME & DATE APPLIED
	NUTEC	11	2671/LB150/LB149	Squeegee	82°F/55%	See below	10/18/77 1 p
	* NUTEC	11	2671/LB150/LB149	Squeegee	70°F/72%	.003-.005	11/4/77 11 a
	REACTIC	1201	3070/2568	Spray	71°F/69%	See below	11/7/77 9 a

\*Used for touch-up only

Total film thickness range: .004 - .031

11 1201

min.	.001-.002	.003-.005
avg.	.003-.005	.007-.008
max.	.010-.015	.010-.011

6. CURING CONDITIONS: AMBIENT TEMP. 70 - 80 °F REL. HUMIDITY 45 - 65 %  
MINIMUM CURE 11 DAYS
7. TEST PROCEDURE: DBA per Bechtel CP 956
8. TESTING PERFORMED BY: Coastal Science DATE SUBMITTED 11/18/77

APPROVED BY: [Signature]

DATE: 12/77

PREPARED BY: [Signature]

DATE: 12/77

TEST REPORT NO.: 210-77

DBA AND RADIATION TOLERANCE

TEST PANEL PREPARATION DATA

1. PRODUCT TO BE TESTED: NUTEC 11/REACTIC 1201
2. TYPE SUBSTRATE: Concrete SIZE: 2" x 4" x 2"
3. SURFACE PREPARATION (Describe): All surfaces sandwashed with Cresblast #4 blasting sand.
4. PRODUCT DATA: SAMPLE NO.(s): 3534
5. DATE AND TIME CURING COMPOUND OR PRIMER APPLIED: N/A

COAT	PRODUCT	PRODUCT CODES	BATCH #	APPLICATION METHOD	CONDITIONS R/M(°F)%R.H.	THICKNESS (ins.)	TIME & DATE APPLIED
	NUTEC	11	2671/LB150/LB149	Squeegee	82°F/55%	.003-.005	10/18/77 1 p.m
	* NUTEC	11	2671/LB150/LB/149	Squeegee	70°F/72%	.003-.005	11/4/77 11 a.
	REACTIC	1201	3070/2568	Spray	71°F/69%	.007-.008	11/7/77 9 a.

\*Used for touch-up only

Total Film Thickness Range: .010 - .018

6. CURING CONDITIONS: AMBIENT TEMP. 70-80 °F REL. HUMIDITY 45-65 %  
MINIMUM CURE 11 DAYS
7. TEST PROCEDURE: DBA per Bechtel CP 956
8. TESTING PERFORMED BY: Coastal Science DATE SUBMITTED 11/18/77

APPROVED BY: [Signature]

DATE: 12/77

PREPARED BY: [Signature]

DATE: 12/77

TEST REPORT NO.: 210-77

# COASTAL SCIENCE ASSOCIATES

504) 283-7251

6900 CANAL BOULEVARD • NEW ORLEANS, LOUISIANA 70124

DATE: 11/22/77

SAMPLE IDENTIFICATION: 0 STEEL PANELS; 2 CONCRETE COUPONS

DBA TEST CONDITIONS:

BECHTEL CP956 BROKEN AT 6 HOURS FOR INSPECTION, RESEALED AND  
STARTED AGAIN AS PER CURVE SPECIFICATIONS. SPRAY PHASE AT 92  
HOURS WITH BORIC ACID SOLUTION.

SAMPLE NUMBER

COMMENTS

3530

SIDE ONE: NO FLAKES, BLISTERS, DELAMINATION  
SIDE TWO: NO FLAKES, BLISTERS, DELAMINATION  
SIDE THREE: NO FLAKES, BLISTERS, DELAMINATION  
SIDE FOUR: NO FLAKES, BLISTERS, DELAMINATION  
\*\*NOTE: PINHOLE ON SIDE #3 THERE PRIOR TO TESTING.

3534

SIDE ONE: NO FLAKES, BLISTERS, DELAMINATIONS  
SIDE TWO: NO FLAKES, BLISTERS, DELAMINATIONS  
SIDE THREE: NO FLAKES, BLISTERS, DELAMINATIONS  
SIDE FOUR: NO FLAKES, BLISTERS, DELAMINATIONS

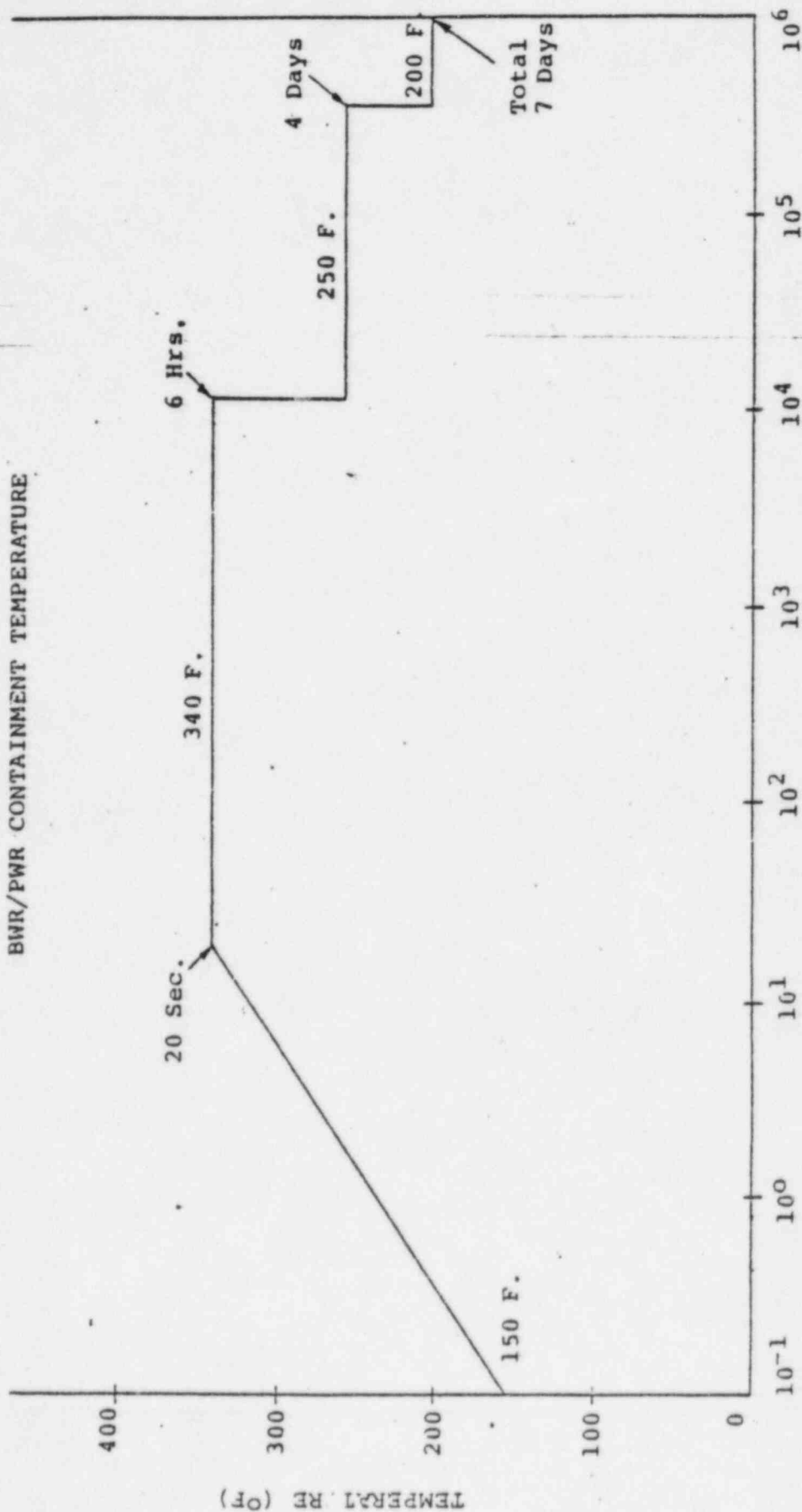
REPORT NUMBER-----054112277-----

APPROVED BY

*Charles E. Frey*

# PROTECTIVE COATING QUALIFICATION CONDITIONS INSIDE CONTAINMENT

BWR/PWR CONTAINMENT TEMPERATURE



TIME (SECONDS)

Table 1

# PROTECTIVE COATING QUALIFICATION CONDITIONS INSIDE CONTAINMENT

BWR/PWR CONTAINMENT PRESSURE

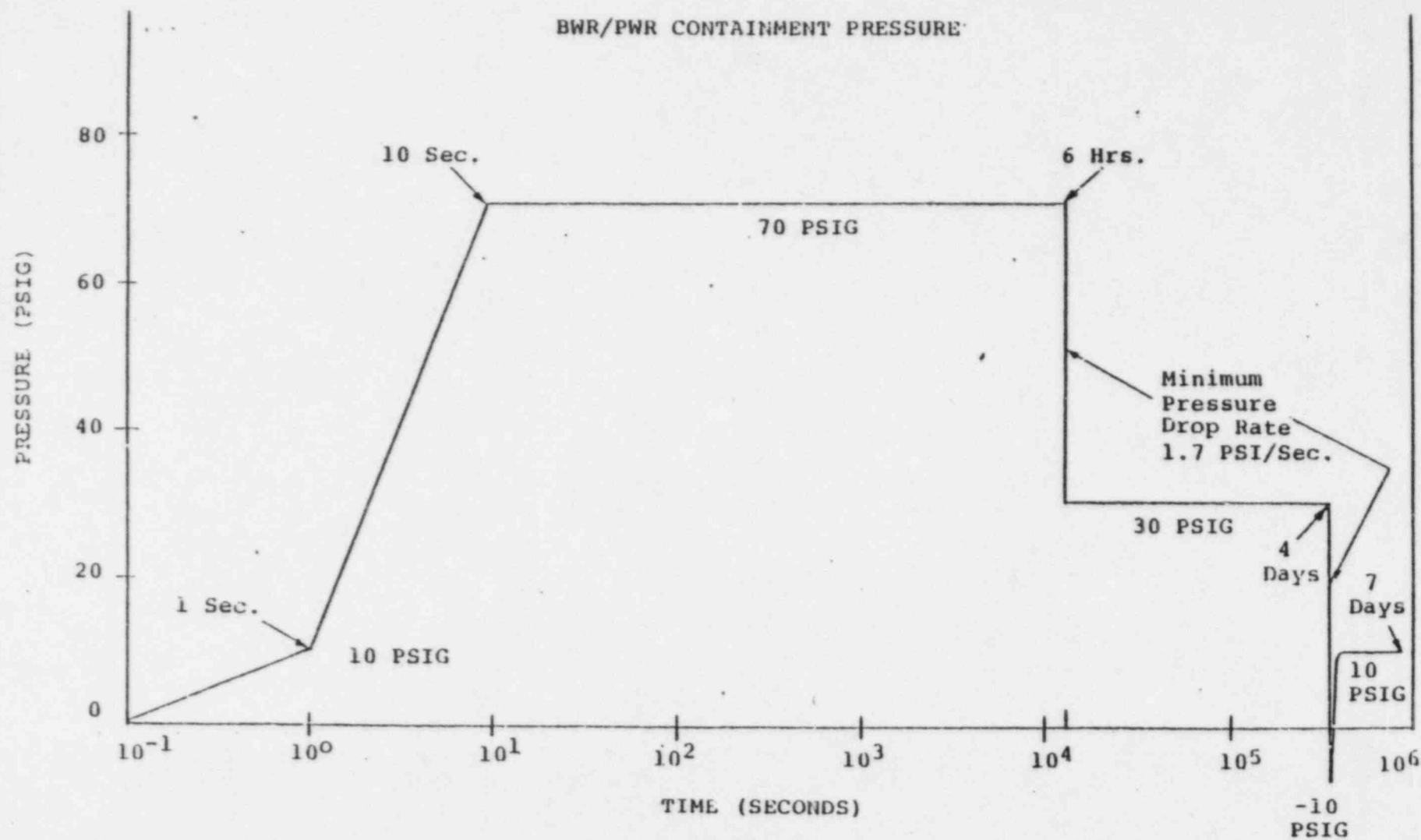


Table 2



**IMPERIAL**

PROFESSIONAL COATINGS

JOB NO. 35-1195

**R** **RECEIVED** **D**  
MAR 27 1980

VBR-12917

January 11, 1980

Gordon MacPhail  
Brown & Root  
Comanche Peak Nuclear Plant  
P. O. Box 1001  
Glen Rose, TX 76043

Dear Gordon,

Enclosed is a copy of Technical Report #210-77 describing the results of DBA tests performed on the Nutec 11/Nutec 1201 system at Coastal Science Associates.

The test conditions of 340°F. and 70 psig surpass the test requirements for Comanche Peak.

Sincerely,

*Jerry Arnold*

Jerry Arnold  
Technical Supervisor

GEA/cap

cc Jerry Clark  
Don Waters

Enclosure

B & R DCC DIST.

PROJECT MGR.	
PROJECT ENGR.	
QA MGR.	1
PROJECT CONT. ENGR.	1 <sup>W</sup> / <sub>a</sub>
TUGCO QA	
PROJECT GEN. MGR.	
ARMS	1 <sup>W</sup> / <sub>a</sub>
G. MacPhail	1 <sup>W</sup> / <sub>a</sub> (-0)
VBR	1 <sup>W</sup> / <sub>a</sub>