Florida Power
A Progress Energy Company

INTEROFFICE CORRESPONDENCE

Nuclear Technical Services	PA3A	240-3925
OFFICE	MAC	TELEPHONE

FROM: Paul A. Wright

DATE: November 15, 2001
NPTS01-0106

TO: IWE / IWL Program File

SUBJECT: Qualification of RoboProbe Parallel Laser Projector

In accordance with the 1992 Addenda of ASME Section XI, a demonstration shall be performed for alternative examination methods or newly developed techniques. The purpose of this qualification is to demonstrate the remote operating proficiency of RoboProbe Technologies DL1 Dual Parallel Laser Projector, as applied to VT-1C and VT-3C Examinations.

This qualification demonstrated equivalency of remote measurement techniques compared to standard "hands-on" measurements to perform remote visual techniques as detailed/qualified in attachment 5 -MAIL 991021.001.

As *applied for VT-1C and VT-3C examinations*, it shall provide valuable supplemental information to characterize the area e.g., approximate size, shape, orientation, location, and distribution of referenced inspection conditions.

In addition, while not intended for inspection purposes, digitally produced photographs shall be provided as informational documentation only, giving a reasonable facsimile of actual inspection observations.

The following demonstration was performed for the ANII, Carlos Colarte, on October 18, 2001.

- A tape measure was used to measure off a distance of 137', with incremental checks performed at 25, 50, 75 and 100 ft to verify the parallel state of the DL1 RoboProbe. Initial laser point calibration was set at 2" spacing and was demonstrated as being consistent throughout the verified distance range.

- The following was used to verify consistency of spacing, and resolution of the two (2) laser points, as observed on the concrete surface:

- One (1) G.E Visual Comparator Card taped to the concrete surface (see attachment 2). The Quality Assurance Card is of neutral gray color and has standard 1/16", 3/64", 1/32", and 1/64" lines, as well as graduated black dots ranging from 1/8" down to 1/64". On the edges are standard scales in 1/16" and 1 MM increments.

- One (1) strip of self-adhering yellow measuring tape in 1/16" increments was also applied.

- One (1) standard machinist scale with 1/32" graduations.

- Used: one (1) pair of pre-qualified 8-24 X 50 Bausch and Lomb Legacy Binoculars.

0/66

- Used: one (1) RoboProbe Technologies, Inc. DL1 Dula Parallel Laser Projector. Model # QAAAKG. Serial #Q00024.

- Natural lighting was utilized, without the aid of artificial illumination. Resolution was found to be acceptable as delineated in ASME Section XI requirements (see Interoffice Correspondence MAIL 991021.001 dated October 21, 1999 – Attachment 5).

- Used: one (1) Tektronix Photo Meter, Model J17, equipment tag # TI-2856, & S/N B022068. (See attachment 4.)

- In conjunction with the photometer, the sensor head attached was a Tektronix Model J1811, equipment tag # TI-2858, & S/N B030704. (See attachment 4.)

The above supplemental technique, used as an aid for characterizing approximate size, shape, orientation, location, and distribution of referenced inspection items, adequately demonstrates the consistency of the RoboProbe Laser Projector for the intended remote VT1-C, & VT3-C Visual Examinations.

The demonstration was performed in the presence of the ANII, and found to be acceptable as applied to ASME Section XI, IWA 2240 criteria.

Jerry Brown, VT1-C, & VT3-C NDE Level II	11-15-01 Date
T. Rand Wilson	11-15-01 Date
Carlos Colarte, ANII, Hartford Steam Boiler Inspection and Insurance Co.	11-15-01 Date
Paul A. Wright, NDE Level III	11-15-01 Date

Attachments:

1 - Users Manual DL1 Dual Parallel Laser Projector – (8 Pages)
2 – G.E. Visual Comparator Card – (1 Page)
3 - Photo demonstration of laser target at 137 feet – (1 Page)
4 - Calibration Records – (4 Pages)
5 - IOC dated October 21, 1999, ccMail991021.001 – (2 Pages)

cc: Records Management

IOC - NPTS01-0106
Attachment 1

ROBOPROBE® TECHNOLOGIES, INC.
ROBOTIC SOLUTIONS FOR CHALLENGING ENVIRONMENTS

User's Manual
QAAAQEM01 Revision 0
DL1 Dual Parallel Laser Projector

Printed 02/21/01

DANGER: LASER LIGHT - AVOID DIRECT EYE EXPOSURE.

1. Introduction

The DL1 dual laser projector was designed to project a dual dot size-reference pattern over surfaces and objects being viewed and video taped by the RoboProbe VT1 and VT1M long range color zoom TV cameras, no matter how far from them. It uses two individual high power red lasers, with perfectly circular patterns, to maximize brightness and facilitate the taking of relative measurements.

The DL1 projects two circular red dots on the surface being viewed or video taped. These dots are clearly visible in shaded daylight, and a screw-on red dichroic filter is also supplied for the VT1/VT1M camera to enhance their relative brightness in direct daylight. The center-to-center distance between both projected dots can be calibrated from 1" to 2". In order for this calibrated distance to remain constant over different viewing distances, both laser beams must be totally parallel.

With a calibrated distance of 1" between both laser beams and their projected dots, the DL1 can be used at viewing distances of up to 250 feet. As the laser beams are slightly divergent and the dots grow with viewing distance, we recommend a calibrated distance of 2" between beams for viewing distances larger than 250 feet.

ALTHOUGH VERY RUGGED IN CONSTRUCTION, THE DL1 IS A LABORATORY INSTRUMENT WHOSE CALIBRATION IS DELICATE AND MAY BE OFFSET BY SHOCKS AND VIBRATION. It is recommended that the dual beam parallelism should be verified, and adjusted if necessary, each time the unit is used.

4065 Winston Drive
Suite 100
Hoffman Estates, IL 60195
phone: 847-934-5567
fax: 847-934-9434
e-mail: solutions@roboprobe.com
website: http://www.roboprobe.com

IOC - NPTS01-0106
Attachment 1

2. Specifications:

- Heavy duty anodized aluminum construction.

- Two red lasers category IIIa, 4.9 mW at 635 nm, 2.2mm diameter circular beams at faceplate, divergence 0.4 mrad.

- On-Off switch and LED indicator on rear panel directly facing the operator.

- Power 8-18 Vdc 200 mA.

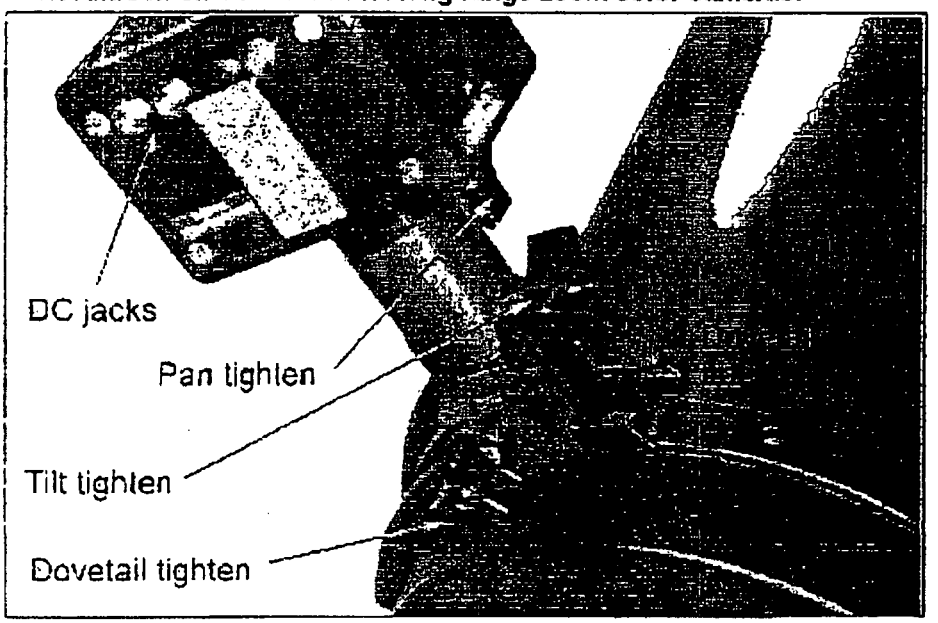
- Internal adjustment for distance between lasers, from 1"/25mm to 2"/50mm, factory adjusted to 1.0".

- External adjustments for dual beam horizontal distance and parallelism. Internal adjustment for dual beam vertical parallelism.

- RoboProbe proprietary universal dovetail mount allows easy installation and removal.

- A light filter is supplied for screwing onto VT1 and VT1M camera. This is a high saturation low pass Dichroic glass plate with 600 nm cutoff.

3. Installation on VT1 and VT1M long range zoom color cameras:



IOC - NPTS01-0106
Attachment 1

3.1 Mounting:

Loosen the dovetail knob and slide DL1's base into the dovetail track. Position DL1 where needed, then tighten the dovetail knob.

3.2 Powering:

Power looping is used on the VT1/VT1M. Connect the DC cable from the power supply (normally goes to camera) into one of DL1's two DC jacks. Both jacks are wired in parallel. Connect the 30" DC cable (supplied) into the other jack and into the camera's DC jack.

3.3 Aligning the projected dots within the camera's field of view:

Aim the VT1 or VT1M towards an easily recognizable "reference" area at the required distance. Slightly loosen the pan and tilt knobs until the DL1 can be moved with some resistance. Aim the DL1's dual red dots towards the reference area.

Looking at the TV image in zoom out, further adjust the DL1's position to make it's dots visible on the monitor screen. Slowly zoom-in to make sure the dots remain centered in the video image. Tighten the pan and tilt knobs.

4. Operation

DANGER: LASER LIGHT - AVOID DIRECT EYE EXPOSURE.

The DL1 is used to perform "relative" measurements on video images. As the "calibrated" distance between the projected red dots is known, the user simply relates that known distance to other objects within the video field of view.

To make a video measurement of an object's size, first use a ruler to measure that object directly on the TV monitor's screen, or on a video print of the image. Then measure the distance between the centers of the projected laser dots on the same screen or print. Use the formula below, where the "calibrated dot distance" is from 1" to 2", as calibrated by you before use (we ship at 1.0" unless requested otherwise). Note that the units of measurement used for the "calibrated dot distance" determine the units of the object's true size (e.g. if the distance between lasers is known in centimeters, then the true object size will also be in centimeters).

$$\text{True object size} = \frac{\text{measured object size}}{\text{measured dot distance}} \times \text{calibrated dot distance}$$

IOC - NPTS01-0106
Attachment 1

When imaging very dark surfaces, the laser dots may be so bright as to overpower the camera's sensitivity, thus darkening the object being measured. In such cases, first record an image of the object with the DL1 turned "off", then turn the lasers "on" and continue recording without changing the zoom position. First measure the size of the object on the video image with a ruler, then measure the distance between the centers of the projected dots as these appear in the picture.

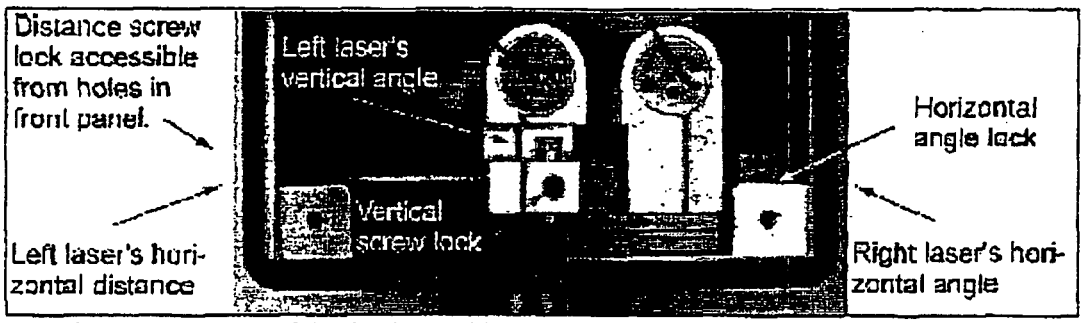
When using the DL1 in daylight, specially when looking at surfaces illuminated by direct sunlight, you may find it difficult to see the red laser dots in the video image. If the color of the object being viewed is not important to your inspection, screw the supplied red dichroic filter in front of the VT1/VT1M camera. This will only allow red light to reach the camera, thus enhancing the relative brightness of the lasers.

5. Calibration

5.1 Preamble:

a) There are three calibration alignment screws, two of which have allen key heads. When the DL1 is viewed from the rear, these are in the positions indicated in the photo below, which shows a DL1 with the rear cover removed. The alignment screws are dedicated to the following calibrations:

- Left laser's horizontal distance (on left side of DL1, 7/64" allen key head accessible through a hole in chassis)
- Right laser's horizontal angle (on right side of DL1, 7/64" allen key head accessible through a hole in chassis)
- Left laser's vertical angle (inside DL1, accessible by removing the rear panel). The adjustment of this screw is special: a very thin allen key may be



inserted in one of the horizontal holes to rotate it, see photo.

b) For each alignment screw there is a corresponding "locking screw". The "locking screws" are plastic tipped, and their purpose is not to lock the alignment screws, but to apply some friction to them. NEVER COMPLETELY TIGHTEN THE "LOCKING SCREWS". Their pressure is factory adjusted and should not

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Attachment 1

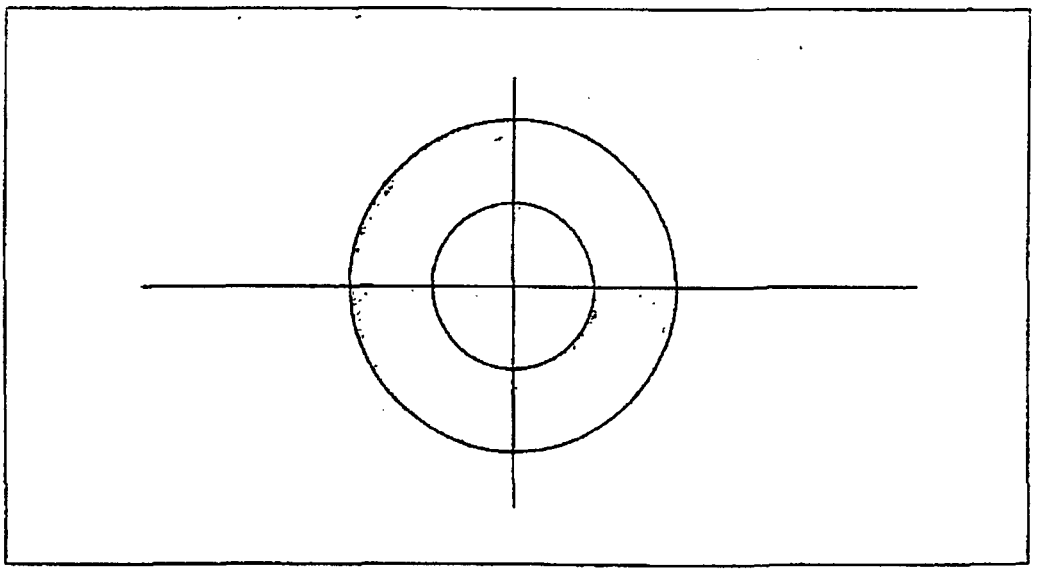
normally be readjusted, however if you decide to do so, screw them in just tight enough to feel that there is some pressure against the corresponding alignment screw.

c) Shock and vibration will affect the parallelism of both laser beams, often during transportation of the DL1 to the work site. This is normal considering the projection distances involved, which require alignment accuracies of up to 1/1000 of a degree. The user must verify and re-adjust beam parallelism at the work site, upon a target placed at about the same distance as the surface being projected upon, before every use.

However we have found that, usually, vibration induced changes to the distance between lasers is insignificant, and changes to the left laser's vertical angle may be compensated for by readjusting the right laser's horizontal angle. It will be seen later that, even though the projected spots are not perfectly horizontal, your measurements will be valid as long as the distance between them is correct.

Hence before contemplating a complete readjustment of all three alignment screws when setting up for use at the work site, try realigning only the right laser's horizontal angle.

d) A copy of the following calibration target, with 1" and 2" circles, must be used during calibration. This may be photocopied (accurate size reproduction only) on peel-off sticky labels.



IOC - NPTS01-0106
Attachment 1

5.2 Calibration task no. 1: distance between laser beams

The use of laser protection glasses for 635 nm (nanometer) light is recommended for this procedure (although not essential if care is taken no to look directly into the beams or their direct reflections). Such glasses may be purchased from optical suppliers such as Edmund Scientific (tel. 800-363-1992).

- Place the DL1 either on the VT1 or VT1M telescope, or in a bench vise. Make certain that the top surface of the DL1 is horizontal, such that both laser sources are also horizontal.

- Turn the lasers "on". Be very careful not to allow anyone to look directly into the laser beams.

- Place a paper copy of the calibration target directly on the DL1's front panel. You will see both laser dots shining through the paper. Position the target so as to center the right laser dot where the horizontal line crosses the target circle, which should be 1" or 2" as desired.

- Using a 7/64" allen key, turn the left laser's horizontal distance alignment screw (on the left side of DL1) until the left dot is centered where the left side of the calibration circle meets the horizontal line.

5.3 Calibration task no. 2: left beam's vertical angle

- With the DL1 still in its fixture as in 5.2 above, turn the lasers "on". Be very careful not to allow anyone to look directly into the laser beams.

- For a preliminary evaluation, aim the laser beams at a distant wall, preferably as far as the work site surface to be inspected. Using a 7/64" allen key, turn the right laser's horizontal angle alignment screw (on the right side of DL1) so that the right dot is far enough to the right of the other to be clearly visible.

- See if both dots are horizontal relative to one another. If one is higher than the other by more than the allowable offset below, perform the left laser's vertical angle calibration.

  Maximum allowable vertical offsets:

  - 1" if the wall's distance is equal/larger than that to the surface to be inspected.
  - 1/2" if the wall's distance is half that to the surface to be inspected.
  - 1/4" if the wall's distance is a quarter that to the surface to be inspected.
  - Etc.

A truly horizontal dot pattern is always preferable, however THE IMPORTANT FACTOR IS THAT BOTH LASER DOTS MUST BE SEPARATED BY THE CALIBRATED DISTANCE WHEN PROJECTED ON THE SURFACE BEING INSPECTED, EVEN THOUGH ONE MAY BE HIGHER THAN THE OTHER.

- If you decide to align the left laser's vertical angle, first remove the DL1's rear cover, to expose the vertical angle alignment screw as indicated in the above photo. Insert a very small allen key or paper clip into one of the holes at the top of the screw, and rotate it until both projected laser dots on the distant wall are at the same height. Now gently tap the left laser to allow it to settle into its stable position, and if this shifts the left beam vertically re-adjust the screw. Do not worry about the horizontal distance between the projected dots during this procedure.

5.4 Calibration task no. 3: right beam's horizontal angle

The horizontal distance between both projected laser dots is the most likely to shift during transportation and handling, and may be the only alignment required at the work site.

When performing this procedure, it is highly desirable to place a copy of the alignment target (a sheet of stick-on alignment targets is supplied with DL1), or a circle of the same diameter as the selected target circle, at a distance equal to that of the work site surface being inspected. Shorter distances may not allow you to see slight divergences in seemingly parallel beams, which will increase with distance as the beams are projected farther.

We recommend that the horizontal angle alignment first be performed in the same environment and set-up as for the other alignments described above. Then, when you reach the work site, "fine-tune" the horizontal angle adjustment using a target placed at an accessible area of the surface being inspected.

It is not important, at the work site, to mount the DL1 horizontally. As long as the distance (horizontal angle adjustment) between the dots is calibrated, they can be oriented at any relative angle from the horizon. This is the reason why our alignment target consists of circles: the center of both laser dots must be positioned on opposing sides of the circle, but not necessarily on the horizontal line that crosses them.

- Mount the DL1 on the VT1 or VT1M (it does not have to be horizontal). Aim the VT1 or VT1M towards the distant alignment target, then focus the image. Zoom-in until the target circle is seen clearly.

- Slightly loosen the DL1's pan and tilt knobs so that it can be moved with some resistance. Aim the DL1 such that the left laser dot is centered on the left side of the alignment circle, as seen on the video monitor.

- To make sure that the laser beams are not crossed, place you hand in front of the DL1's left laser, and see that it is the left dot that disappears.

- Using a 7/64" allen key, turn the right laser's horizontal angle alignment screw (on the right side of DL1) until the right dot is centered over the opposite side of the calibration circle. You may have to slightly reposition the DL1 to maintain both dots on opposite sides of the circle.

- Tighten the pan and tilt knobs, making sure that this does not move the projected pair of dots away from the center of the video image.

6. Maintenance

No routine maintenance is required by the DL1.

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Attachment 2

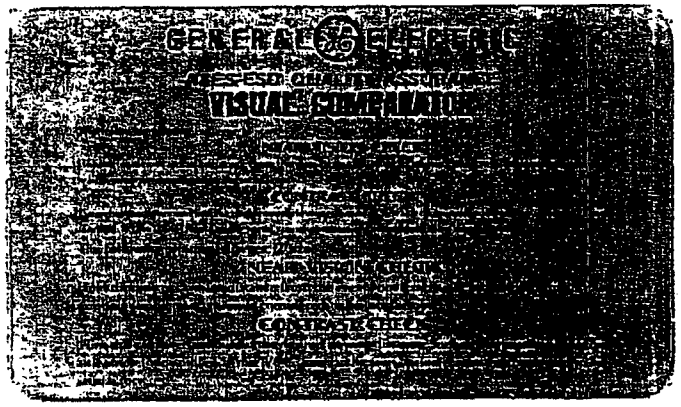
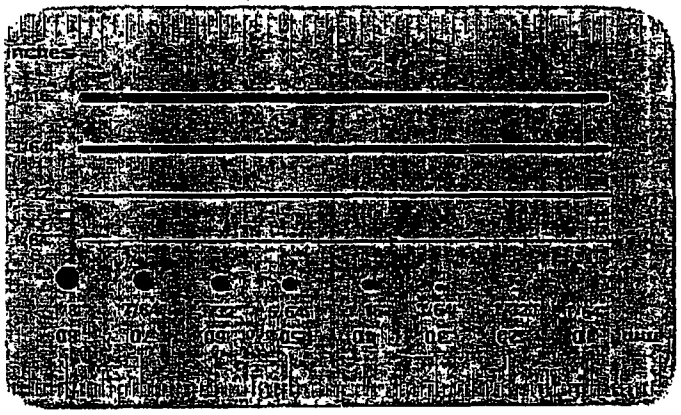


Photo Scan of G.E. Visual Comparator Card



IOC - NPTS01-0106
Attachment 3

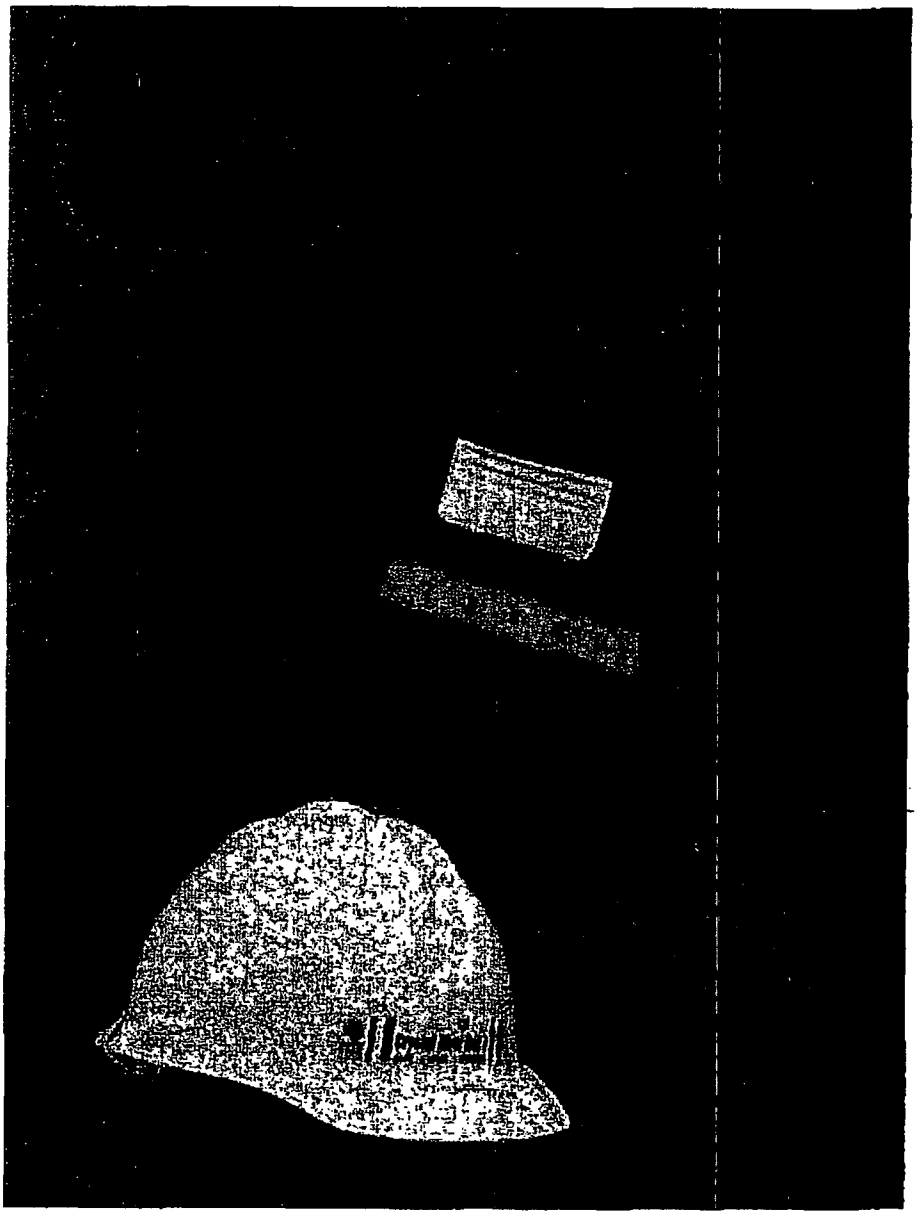


Photo taken at a distance of 137' with Sony Mavica, set on 20X full zoom.

IOC - NPTS01-0106
Attachment 4

ENCLOSURE 6 1560

CALIBRATION WORK SHEET NO: 00-07-090

Test Equipment TAG No: TI-2856- Due Date: 07/29/00 To Day: 01/02/01

Description: PHOTOMETER READOUT Manufacturer: TEKTRONIX

Range: .001 TO 5000 FOOT CANDLES Serial#:B022068 Model:J17

Check Reason: CYCLE 12					
RETURN DAMAGED	(J)		NON-ROUTINE CERT.	(U)	
SPECIAL CERTIFICATION	(K)		FUNCTIONAL CHECK	(W)	
RECERTIFICATION	(M)	I	MANUFACTURERS CERT.	(X)	
NEW EQUIPMENT	(N)		CANNOT LOCATE	(Y)	

Calibration Instruction: CI 04
Calibration WORK SHEET #: 232

Originator: CAL LAB DEPT: CALIBRATION LAB

-CALIBRATION LAB USE ONLY-

CERTIFIED PER	36	(I)	OUT-OF-TOLERANCE		(O)
CALIBRATED PER		(T)	ADJUSTMENT REQUIRED		(A)
FUNCTIONAL CHECK PER		(W)	REPAIR REQUIRED		(S)
REMOVED BY		(R)	UPDATED, NOT USED		(*)
			OUT-OF-SERVICE		(H)

Describe Work Performed:

OSC: 36 HOURS: .5 /OSC: A2 HOURS: .5 /OSC: A2 HOURS: .5

TEST INSTRUMENT CAL DATE: 1/2/01 DUE DATE: 12/4/01

TEST STANDARDS USED	CAL DATE	DUE DATE	COMMENTS:
TS-553	12/11/00	11/12/01	
			MMIS No: NONE
			Location: 1C

Approved By: DATE: 1-5-01

• CP-146 •

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Attachment 4

CALIBRATION DATA SHEET
Secondary Standards Lab
CI-04-232

CALIBRATION WORKSHEET NUMBER 00-07-090

I.D. NUMBER: T1-2856	
SERIAL NUMBER: B022068	
MODEL NUMBER: J-17 / J1811	
INSTRUMENT: PHOTOMETER	TEKTRONIX
SPECIFICATIONS: .001 TO 5000 FOOT CANDLES	
ACCURACY: +/- 6% RNG +/- 2 COUNTS W/HEAD	* TO BE USED WITH ILLUMINANCE PROBE

TEST INSTRUMENTS TO BE USED FOR CALIBRATION:

SUGGESTED STANDARD	ACTUAL STANDARD USED	DUE DATE
FS-553	FS-553	11/12/01
OR EQUIVALENT		

STANDARD RANGE	STANDARD INPUT/OUTPUT	AS FOUND INDICATION BG AP CODE AP	AS LEFT INDICATION MAP CODE BG	TOLERANCE
FC	FC	FC	FC	FC
.001 / 5000	400	401	401	375.8 / 424.2
	1000	1010	1010	939.8 / 1060.2

CALIBRATED BY: BG-AZ-AP DATE: 1/2/01

APPROVED [signature] DATE 1-5-01 REVISION -1- DATE 09/28/98

IOC - NPTS01-0106
Attachment 4

ENCLOSURE 6

1562

CALIBRATION WORK SHEET NO: 00-07-089

Test Equipment TAG No: TI-2858- Due Date: 07/29/00 To Day: 01/02/01

Description: PHOTOMETER SENSOR HEAD Manufacturer: TEKTRONIX

Range: .001 TO 5000 FOOT CANDLES Serial#:B030704 Model:J1811

Check Reason:					
CYCLE 12	RETURN DAMAGED	(J)		NON-ROUTINE CERT.	(U)
	SPECIAL CERTIFICATION	(K)		FUNCTIONAL CHECK	(W)
	RECERTIFICATION	(M)	I	MANUFACTURERS CERT.	(X)
	NEW EQUIPMENT	(N)		CANNOT LOCATE	(Y)

Calibration Instruction: CI 04
Calibration WORK SHEET #: 232

Originator: CAL LAB DEPT: CALIBRATION LAB

-CALIBRATION LAB USE ONLY-

CERTIFIED PER	BG	(I)	OUT-OF-TOLERANCE		(O)
CALIBRATED PER		(T)	ADJUSTMENT REQUIRED		(A)
FUNCTIONAL CHECK PER		(W)	REPAIR REQUIRED		(S)
REMOVED BY		(R)	UPDATED, NOT USED		(*)
			OUT-OF-SERVICE		(H)

Describe Work Performed:

OSC: BG HOURS: .5 /OSC: AP HOURS: .5 /OSC: AP HOURS: .5

TEST INSTRUMENT CAL DATE: 1/2/01 DUE DATE: 12/4/01

TEST STANDARDS USED	CAL DATE	DUE DATE	COMMENTS:
TS-553	12/1/00	11/12/01	
			MMIS No: NONE
			Location: 1A

Approved By: [signature] DATE: 1-5-01

* CP-146 *

IOC - NPTS01-0106
Attachment 4

CALIBRATION DATA SHEET
Secondary Standards Lab
CI-04-232

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CALIBRATION WORKSHEET NUMBER 00-07-089

I.D. NUMBER:	T1-2858
SERIAL NUMBER:	B030704
MODEL NUMBER:	J-17 / J1811
INSTRUMENT:	PHOTOMETER "TEKTRONIX"
SPECIFICATIONS:	.001 TO 5000 FOOT CANDLES
ACCURACY:	+/- 6% RNG +/- 2 COUNTS W/HEAD * TO BE USED WITH ILLUMINANCE PROBE

TEST INSTRUMENTS TO BE USED FOR CALIBRATION:

SUGGESTED STANDARD	ACTUAL STANDARD USED	DUE DATE
TS-553	TS-553	11/12/01
OR EQUIVALENT		

STANDARD RANGE	STANDARD INPUT/OUTPUT	AS FOUND INDICATION CODE BG AT AP	AS LEFT INDICATION CODE AT BG AP	TOLERANCE
fC	fC	fC	fC	fC
.001 / 5000	400	401	401	375.8 / 424.2
	1000	1010	1010	939.8 / 1060.2

CALIBRATED BY: BG-AT-AP DATE: 1/2/01

APPROVED [signature] DATE 1-5-01 REVISION -1- DATE 09/28/98

IOC - NPTS01-0106
Attachment 5

Florida Power CORPORATION

INTEROFFICE CORRESPONDENCE

Engineering Programs — Office | NA2I — Mail Code | 240-3478 — Telephone

SUBJECT: Demonstration of Visual Equivalency
TO: R.L. Hathorn, DATE: October 21, 1999
coMAIL99I021.001

In accordance with the 1992 Addenda of ASME Section XI, a procedure demonstration must be performed for Visual Examination procedures. This demonstration must satisfy the maximum lower case character height resolution requirements of Table IWA-2210-1. The following demonstration was performed for the ANII, Carlos Colarte, on October 21, 1999 to validate the use of Remote VT-1 and VT-3 Visual Examination as a supplement to, and substitute for Direct VT-1 and VT-3 Visual Examination.

- A tape measure was used to measure and mark twenty-five (25) feet increments up to and including a distance of one hundred (100) feet.
- The following were mounted on cardboard backing and taped to a structural column:
  - One (1) standard machinist scale with 1/32" graduations
  - One (1) standard machinist scale with 1/10" graduations
  - One 18% Neutral Grey Card with 1/32" and 1/64" scribed lines
  - One (1) laminated card with lower case characters meeting the maximum height requirements of IWA Table 2210-1, as previously verified using an optical comparator
  - One (1) calibrated light meter, FPC Test Instrument (TI) 3375, calibrated on September 13, 1999
- At a distance of seventy-five (75) and one-hundred (100) feet, a two-million (2,000,000) candle power spotlight and 8-24 X 50mm binoculars were utilized to achieve resolution of graduations on the machinist scales, 1/32" scribed line on the 18% Neutral Grey Card, and lower case characters meeting the maximum height requirements of Table IWA-2210-1.

For General VT Examinations, lighting resolution shall be sufficient to resolve a 1/32" black line on an 18% Neutral Grey Card. This resolution was satisfactorily demonstrated at distances up to and including one hundred (100) feet.

For Direct VT-1 Examinations, the 1992 Addenda to ASME Section XI requires that a maximum lower case character height of 0.044" at a distance of two (2) feet and a minimum lighting level of fifty (50) foot candles must be resolved. This

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Attachment 5

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ccMAIL991021.001
October 21, 1999

requirement can be satisfied by resolving a 1/32" (0.0312") graduation on a standard machinist scale ruler at two (2) feet. This resolution was satisfactorily demonstrated remotely at distances up to and including one hundred (100) feet.

For Direct VT-3 Examinations, the 1992 Addenda to ASME Section XI requires that a maximum lower case character height of 0.105" at a distance of four (4) feet and a minimum lighting level of fifty (50) foot candles must be resolved. This requirement can be satisfied by resolving a 1/10" (0.105") graduation on a standard machinist scale ruler at four (4) feet. This resolution was satisfactorily demonstrated remotely at distances up to and including one hundred (100) feet.

The above alternate techniques for verifying visual examination resolution adequacy has been demonstrated to the ANII and found to be acceptable for ASME Section XI applications in accordance with IWA 2240.

Bernard P. Komara — 10/21/99
Bernard P. Komara, FPC NDT Level III — Date

Carlos A. Colarte — 10-22-99
Carlos Colarte, ANII, Hartford Steam Boiler Inspection and Insurance Co. — Date

cc: Records Management

Florida Power
A Progress Energy Company

memo

Date: September 4, 2001

To: Matt Denny

From: Joe A. Lese

Subject: Visual Examination of External Reactor Building Surfaces

In accordance with ASME Section XI, Subsection IWL, a visual examination of the exterior concrete surfaces of the Reactor Building will be performed in conjunction with the 7th Tendon Surveillance at CR3. While Section 5.1.1 of IWL provides general guidelines for the visual examination of concrete surfaces, the following information is provided to supplement that information and is to be used to assist the examiners in documenting areas of distress. Documentation should include, but is not limited to the following:

1) Exposed tie wires, #9 wires, or form nails
2) Bug holes greater than 2" diameter and ¾' depth
3) Pop outs greater than 2" diameter and ¾" depth
4) Light scaling greater than 1-1/8" deep
5) Spalling greater than 8" in any direction and ¾" depth
6) Grouted form ties/form tie holes (acceptable provided no spalling or corrosion staining)
7) Grouted patches over cold joints
8) Corroding eye bolts, anchors, bolts remaining from original construction, ground clips, form ties
9) Rough/uneven concrete finish with exposed rebar
10) Cracks greater than 1 mm in maximum width
11) Abnormal deformation of concrete from its original shape
12) Leaching/staining

Documented areas of concern will be resolved on a case by case basis by Design Engineering Structural. If you require further information, please contact Joe Lese @ ext. 3898.

JAL:jal

TITLE

VISUAL EXAMINATION OF ASME SECTION XI, SUBSECTION IWL COMPONENTS

1.0 PURPOSE

This specification provides instructions for visual examination of ASME Section XI, Subsection IWL, Class CC Concrete Components of Light-Water Cooled Plants.

2.0 SCOPE

This specification describes the basic requirements for visual examination to determine the condition of component surfaces. This procedure meets the VT-1, VT-1C and VT-3C examination requirements for ASME Section XI, Subsection IWL and applies only to Crystal River Nuclear Unit 3.

3.0 REFERENCE DOCUMENTS

(1) ASME Section XI, Subsection IWL, Requirements for Class CC Concrete Components of Light-Water Cooled Plants, 1992 Edition through 1992 Addenda

(2) ASME Section V, Article 9, Visual Examination, 1992 Edition through 1992 Addenda

(3) ASME Section XI, Section IWA-2240, Alternative Examinations

(4) American Concrete Institute, ACI 201.1R-92, Guide for Making a Condition Survey of Concrete in Service,

(5) American Concrete Institute, ACI 349.3R-96, Evaluation of Existing Nuclear Safety-Related Concrete Structures

4.0 PERSONNEL QUALIFICATIONS

Personnel performing examinations to this specification shall be qualified and certified in accordance with following Material Technology Administrative Procedures:

(1) Nuclear Assessment Procedure (NAP) 6, "CERTIFICATION OF NONDESTRUCTIVE EXAMINATION PERSONNEL IN ACCORDANCE WITH SNT-TC-1A", in the visual VT-1, VT-1C and VT-3C examination method

Only personnel certified as Level II or Level III in the visual methods shall record, evaluate and interpret examination results.

5.0 SURFACE PREPARATION

All surfaces shall be free from extraneous material that would interfere with the examination.

REVIEWED BY	DATE	APPROVED BY	DATE
Jeff Heath III	7-19-01		7/23/01

6.0 LIGHTING

The lighting shall illuminate the area to be examined at right and oblique angles. This lighting can be accomplished using normal lighting, flashlights, drop lights, flood lights, etc. Reflections from the piece being examined must not interfere with the visual examination. The lighting and resolution requirements for the visual examinations are specified in Section 7.0. It is not necessary to measure illumination levels on each examination surface when using the same portable light source or similar installed lighting is demonstrated to provide the specified illumination at the maximum examination distance. The resolution demonstrations should be performed in the least discernible location of the examination area.

When using portable battery powered lights, the illumination resolution capabilities shall be checked before and after each examination or series of examination, not to exceed 4 hours of continuous use between checks.

7.0 EXAMINATION TECHNIQUES

Concrete surface areas shall be VT-3C visual examined for evidence of damage or degradation. Visual examinations may be performed from floors, roofs, platforms, walkways, ladders, ground surface or other permanent vantage points. Selected areas, such as those that indicate suspect conditions, shall receive a
VT-1C examination.

7.1 ASME SECTION XI VISUAL VT-1 and VT-1C EXAMINATIONS

VT-1C examinations are conducted to determine concrete deterioration and distress for suspect areas detected by VT-3C. VT-1 examinations are conducted to determine conditions of tendon anchorage and wires or strands.

7.2 ASME SECTION XI VISUAL VT-3C EXAMINATIONS

VT-3 examinations are conducted to determine the general structural condition of concrete surfaces of containments by identifying areas of concrete deterioration and distress.

7.3 DIRECT VT-1 and VT-1C VISUAL EXAMINATION

Direct visual examination may be conducted when access is sufficient to place the eye within 24 inches of the examination surface and at an angle not less than 30 degrees to the examination surface. The lighting level shall be a minimum lighting level of 50 foot-candles (fc). Resolution shall be sufficient to resolve a 1/32nd inch graduation on a standard machinist steel rule at the examination surface.

7.4 DIRECT VT-3C VISUAL EXAMINATION

Direct visual examination may be conducted when access is sufficient to place the eye within 48 inches of the examination surface. The lighting level shall be a minimum of 50 foot-candles (fc). Resolution shall be sufficient to resolve a 1/10th inch graduation on a standard machinist steel rule at the examination surface.

7.5 REMOTE VISUAL EXAMINATION

Remote visual examination may be substituted for direct examination. Remote visual examination may use visual aids such as mirrors, binoculars, telescopes, borescopes, fiber optics, video cameras, or other suitable instruments. The lighting and resolution capability of remote systems shall be able to detect the conditions or indications for which the visual examination is being performed.

When remote visual examinations are performed using an automated positioning device, the location and dimensions of indications shall be obtained using the position display readouts of the positioning device. If no position display readouts are available, the location of the indication shall be recorded relative to known physical locations on the part, and the dimensions of the indication shall be estimated based on known surface irregularities.

8.0 SIZING OF INDICATIONS BY REMOTE VIDEO EXAMINATION

In order to determine the size of the indication, the distance from the examination area to the face of the camera must be known. This may be accomplished by using a stand-off device to hold the camera at a known fixed distance from the indication being viewed or by using known drawing dimensions to determine this distance.

Measure the actual size of the indication as viewed on the video monitor screen.

Perform sizing calibration by placing a graduated scale in the camera's field of view under the same conditions as the indication was viewed (water, air, or gaseous atmosphere), the same distance, and in the same plane as the measured indication.

Determine/calculate the sizing correction factor by taking a measurement of a one inch length of the graduated scale as viewed on the video monitor screen.

To obtain actual indication size, divide the indication measurement by the sizing correction factor.

Example: Correction factor as measured on video monitor screen 1 inch on graduated scale = 1.85 inches as measured on monitor screen. Indication dimensions as measured on monitor screen = 0.34 inches.

0.34 / 1.85 = 0.18 inches corrected indication length/size

9.0 AREAS OF EXAMINATION

Work request documentation and/or engineering instructions which reference this procedure will specify the areas required to be examined.

10.0 REPORTS OF EXAMINATION

Visual examinations shall be documented on an appropriate visual examination report. Indications of discontinuities shall be evaluated in accordance with the appropriate SPS acceptance criteria specified in the Work Request documentation and/or engineering instructions.

Discontinuities and unacceptable defects shall have their dimensions and orientations accurately documented.

Photography or video tape recording may be used to record questionable discontinuities or imperfections for future evaluations. Where possible, graduated scale should be recorded to document an accurate dimension. The photograph or videotape shall be adequately identified to describe the area viewed, component identification, and accurate orientation of the area.

TITLE
VISUAL EXAMINATION OF ASME SECTION XI, SUBSECTION IWL COMPONENTS

The examiner shall complete an examination report (similar to Attachment No's 1 or 2) containing the minimum information listed below:

- Plant
- Unit
- System
- Procedure and Revision
- ISI Figure Number (if applicable)
- Work Request Number
- Examination Purpose
- Acceptance Criteria
- Examination Technique
- Examination Equipment
- Examination Results
- Examination Limitations
- Examiner Signature, Certification Level, and Date

The examination report shall be submitted to the responsible engineer for evaluation. If the evaluation identifies unacceptable conditions, the Nuclear Condition Report number must be identified on the examination report.

11.0 ATTACHMENTS

Attachment No. 1	Visual Examination of IWL
Attachment No. 2	Visual Examination Data Sheet - Tendon (Example)

12.0 REVISION HISTORY

Revision 0	12/29/97	Original
Revision 1	Replaced MTAP No. 6 with NAP-6 for the certification procedure. Added the new electronic form.	

TITLE
VISUAL EXAMINATION OF ASME SECTION XI, SUBSECTION IWL COMPONENTS

Attachment No. 1

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Visual Examination of IWL

Site/Unit: ____ / ____ Procedure: _____ Outage No.: _____

Summary No.: _____ Procedure Revision/FC: ____ / ____ Report No.: _____

Workscope: _____ Work Order No.: _____ Page: ____ of ____

Code: _____ Code Cat.: _____ Location: _____

Drawing No.: _____ Description: _____

System ID: _____

Component ID: _____

Limitations: _____

General Exam ☐ VT-1C ☐ VT-3C ☐ Resolution: _____

Surface Condition: _____ Visual Equipment/Aids: _____

Inspected From: Outside Containment ☐ Both ☐

Light Meter Mfg.: _____ Serial No.: _____ Illumination: _____ FL/CDS

Light Verification Times: ____ / ____ Cal In ☐ Cal Out ☐

Vent System Or Containment Surfaces

Coated Areas ____ Non-Coated Areas ____

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	___	___	___	___	12) Reinforcing Bar Corrosion	___	___	___	___
2) Cracking	___	___	___	___	13) Rust Bleeding	___	___	___	___
3) Delaminations	___	___	___	___	14) Tendon Surface Cracking	___	___	___	___
4) Honeycomb	___	___	___	___	15) Efflorescense	___	___	___	___
5) Water In Leakage	___	___	___	___	16) Cosmetic Patch Bond	___	___	___	___
6) Chemical Leaching	___	___	___	___	17) Voids	___	___	___	___
7) Popouts	___	___	___	___	18) Erosion	___	___	___	___
8) Deflection	___	___	___	___	19) Pitting	___	___	___	___
9) Staining	___	___	___	___	20) Abrasion	___	___	___	___
10) Discoloration	___	___	___	___	21) Segregation	___	___	___	___
11) Vibration Damage	___	___	___	___	22) Other	___	___	___	___

Comments:

Results: Sat ☐ Unsat ☐ _____

Percent Of Coverage Obtained > 90%: _____ Reviewed Previous Data: _____

Examiner	Level	Signature	Date	Reviewer		Signature	Date
			/				/
Examiner	Level	Signature	Date	Site Review		Signature	Date
			/				/
Other	Level	Signature	Date	ANII Review		Signature	Date
			/				/

TITLE
VISUAL EXAMINATION OF ASME SECTION XI, SUBSECTION IWL COMPONENTS

Attachment No. 2

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VISUAL EXAMINATION DATA SHEET
ASME SECTION XI, SUBSECTION IWL - TENDONS

Plant _____ Unit _____ Page ____ of ____
System _____ Exam. Data Sheet No. _____
Procedure _____ Revision _____

Component _____ WR No. _____
Component Description _____ DWG. _____
Examination Purpose: ☐ ISI ☐ PSI ☐ OTHER _____
Acceptance Criteria _____

Technique: ☐ VT-1 ☐ VT-1C ☐ VT-3C ☐ Direct ☐ Remote Resolution: ☐ 1/32" ☐ 1/10" ☐ N / A
Equipment: ☐ Flashlight ☐ Mirror ☐ Magnifier ☐ Light Meter ☐ Other: _____

Examination Results

Concrete Cracks Greater than 0.01" Width	☐ YES	☐ NO	☐ N / A	Corrosion	☐ YES	☐ NO	☐ N / A
Missing Buttonheads	☐ YES	☐ NO	☐ N / A	Broken Wires	☐ YES	☐ NO	☐ N / A
Cracks in Tendon Anchorage Hardware	☐ YES	☐ NO	☐ N / A	Protruding Wires	☐ YES	☐ NO	☐ N / A
Water in Anchorage Caps	☐ YES	☐ NO	☐ N / A	Broken Strands	☐ YES	☐ NO	☐ N / A
Water Draining from Tendons	☐ YES	☐ NO	☐ N / A	Grease Leakage	☐ YES	☐ NO	☐ N / A
Grease Cap Damage/Deformation	☐ YES	☐ NO	☐ N / A	Other:			☐ N / A

Sketch / Comment Area

Recordable Indications Present ☐ YES ☐ NO Supplemental Data Attached ☐ YES ☐ NO

Examiner (print & sign) _____ Level ____ Date _____
Reviewer (print & sign) _____ Level ____ Date _____
ANIC If Required (sign) _____ Date _____

If Recordable Indications Present, Engineering Evaluation Required. PC# (if required) _____
Acceptable by Evaluation : ☐ YES ☐ NO (Provide basis and / or rework / repair method)
Engineering (print & sign) _____ Date _____

TITLE

VISUAL EXAMINATION ACCEPTANCE CRITERIA OF ASME SECTION XI, SUBSECTION IWL COMPONENTS

1.0 PURPOSE

This procedure specifies ASME Section XI, Subsection IWL minimum acceptance/recording criteria for visual examination of Class CC Concrete Components of Light-Water Cooled Plants. The examinations are performed to identify and define areas of distress.

2.0 SCOPE

This document only applies to the visual examination of ASME Section XI, Subsection IWL Class CC Concrete Components at Crystal River Nuclear Unit 3:

3.0 REFERENCE DOCUMENTS

This specification has been developed with the following documents as a reference:

(1) ASME Section XI, Subsection IWL, Requirements for Class CC Concrete Components of Light-Water Cooled Plants, 1992 Edition through 1992 Addenda

(2) American Concrete Institute, ACI 201.1R-92, Guide for Making a Condition Survey of Concrete in Service

(3) American Concrete Institute, ACI 349.3R-96, Evaluation of Existing Nuclear Safety-Related Concrete Structures

4.0 PERSONNEL QUALIFICATIONS

Personnel evaluating the examination results to the requirements of this specification shall be qualified and certified in accordance with following Material Technology Administrative Procedures:

(1) MTAP No. 6, Certification Of NDT Personnel In Accordance With SNT-TC-1A, in the visual VT-1, VT-1C and VT-3C examination method.

Only personnel certified as Level II or Level III in the visual methods shall record, evaluate and interpret examination results.

5.0 ACCEPTANCE / RECORDING CRITERIA

Visual examinations shall be performed to document areas of deterioration. Suspect areas will be accepted by engineering evaluation or corrected by repair/replacement. The engineering evaluation will determine the acceptability of the condition and determine the need for supplemental examinations.

REVIEWED BY	DATE	APPROVED BY	DATE
	12/19/97		12/29/97

TITLE

VISUAL EXAMINATION ACCEPTANCE CRITERIA OF ASME SECTION XI, SUBSECTION IWL COMPONENTS

5.1 EXAMINATION CATEGORY L-A, CONCRETE

5.1.1 Visual Examination of Concrete Surfaces

Concrete surfaces shall be examined for the purpose of identifying and defining areas of distress. The following conditions shall be recorded for engineering evaluation. However, the examination should not be limited to the items listed below, thereby possibly overlooking other conditions of degradation.

(1) Cracks - Record the location, frequency, type, size, Leaching
(2) Stalactites or Stalagmites
(3) Scaling - Record the area, depth, and type.
(4) Spalls and Popouts - Record the number, size, depth, and type.
(5) Extent of corrosion or chemical attack, abrasion, impact, impact or cavitation.
(6) Stains, Efflorescence - Record possible source (heat from steam piping, fire, rebar rust, etc.)
(7) Exposed Reinforcement
(8) Curling and warping
(9) Tendon Grease Leakage
(10) Coatings Degradation
(11) Other conditions of Degradation

5.2 EXAMINATION CATEGORY L-B, UNBONDED POST-TENSIONING SYSTEM

5.2.1 Visual Examination of Anchorage Hardware and Surrounding Concrete

The VT-1 examination of the tendon anchorage hardware includes bearing plates, anchor heads, wedges, buttonheads, and shims. The VT-1C examination includes the concrete extending outward for a distance of 2 feet from the edge of the bearing plate. The following conditions shall be recorded for engineering evaluation:

(1) Concrete cracks having widths greater than 0.01 inch,
(2) Corrosion,
(3) Broken or protruding wires,
(4) Missing buttonheads,
(5) Broken strands,
(6) Cracks in tendon anchorage hardware,
(7) The amount of water contained in the anchorage end cap,
(8) The amount of water that drains from the tendon during the examination process,
(9) Other conditions of Degradation.
(10) Grease Cap Damage or Deformation
(11) Grease Leakage
(12) Other conditions of Degradation

6.0 REVISION HISTORY

Revision 0 Original

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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0001 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-284

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 1

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 95' to EL. 119'

Drawing No.: S-425-001, S-425-002 (Rev. 1) | Description: RBCN-0001

System ID: Concrete Containment

Component ID: RBCN-0001

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars, Naked Eye, Spotlight

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 350 Ft./CDS

Light Verification Times: 0800 / 1700 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—	12) Reinforcing Bar Corrosion	X	—	—	—
2) Cracking	X	—	—	—	13) Rust Bleeding	X	—	—	—
3) Delaminations	X	—	—	—	14) Tendon Surface Cracking	X	—	—	—
4) Honeycomb	X	—	—	—	15) Efflorescense	X	—	—	—
5) Water In Leakage	X	—	—	—	16) Cosmetic Patch Bond	X	—	—	—
6) Chemical Leaching	X	—	—	—	17) Voids	X	—	—	—
7) Popouts	X	—	—	—	18) Erosion	X	—	—	—
8) Deflection	X	—	—	—	19) Pitting	X	—	—	—
9) Staining	X	—	—	—	20) Abrasion	X	—	—	—
10) Discoloration	X	—	—	—	21) Segregation	X	—	—	—
11) Vibration Damage	X	—	—	—	22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated. some were not.

Results: Sat ☑ Unsat ☐ | **Examination Performed Online 2001**

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D Brown	9/7/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
N/A	N/A			Joe Lese, PE	Joe C. Lese	11.14.01
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/7/01	C. Colarte / ANIC	Carlos A. Colarte	12-10-01

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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0002 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-285

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 1

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 95' to EL. 119'

Drawing No.: S-425-001, S-425-002 (Rev. 1) | Description: RBCN-0002

System ID: Concrete Containment

Component ID: RBCN-0002

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars and Naked Eye

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 400 Ft./CDS

Light Verification Times: 0800 / 1630 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X

	Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—
2) Cracking	X	—	—	—
3) Delaminations	X	—	—	—
4) Honeycomb	X	—	—	—
5) Water In Leakage	X	—	—	—
6) Chemical Leaching	X	—	—	—
7) Popouts	X	—	—	—
8) Deflection	X	—	—	—
9) Staining	X	—	—	—
10) Discoloration	X	—	—	—
11) Vibration Damage	X	—	—	—

Non-Coated Areas X

	Sat	Unsat	N/A	See Comments
12) Reinforcing Bar Corrosion	X	—	—	—
13) Rust Bleeding	X	—	—	—
14) Tendon Surface Cracking	X	—	—	—
15) Efflorescense	X	—	—	—
16) Cosmetic Patch Bond	X	—	—	—
17) Voids	X	—	—	—
18) Erosion	X	—	—	—
19) Pitting	X	—	—	—
20) Abrasion	X	—	—	—
21) Segregation	X	—	—	—
22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated. some were not.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	9/7/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe O. Lese	11-14-01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/7/01	C. Colarte /	Carlos A. Colarte	12-10-01

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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0003 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-286

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 2

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 95' to EL. 119'

Drawing No.: S-425-001, ~~S-425-002 (Rev. 1)~~ AW 12-6-01 | Description: RBCN-0003

System ID: Concrete Containment

Component ID: RBCN-0003

Limitations: Tendon Gallery - Direct / Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Naked Eye, Spotlight

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 350 Ft./CDS

Light Verification Times: 0800 / 1630 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas ___ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	X				12) Reinforcing Bar Corrosion	X			
2) Cracking	X				13) Rust Bleeding	X			
3) Delaminations	X				14) Tendon Surface Cracking	X			
4) Honeycomb	X				15) Efflorescense		X		
5) Water In Leakage	X				16) Cosmetic Patch Bond	X			
6) Chemical Leaching	X				17) Voids	X			
7) Popouts	X				18) Erosion	X			
8) Deflection	X				19) Pitting	X			
9) Staining	X				20) Abrasion	X			
10) Discoloration	X				21) Segregation	X			
11) Vibration Damage	X				22) Other		X		

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D Brown	9/7/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A			Joe Lese, PE	Joe C. Lese	11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/7/01	C. Colarte	Carlos A. Colarte	12-10-01

Florida Power
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Supplemental Report

Report No.: VT-01-286

Summary No.: RBCN-0003

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments:

(Ceiling of Tendon Gallery)

Item #1 (Reference Page 1 - Condition 15): Four areas of efflorescence.

Item #2 (Reference Page 1 - Condition 22): 1 1/4" x 1 1/4" area of exposed metal (not rebar).

Item #3 (Reference Page 1 - Condition 22): 2" x 3/4" area of exposed metal (not rebar).

Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0004 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-287

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 1

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 119' to EL. 143'

Drawing No.: S-425-002 (Rev. 1) | Description: RBCN-0004

System ID: Concrete Containment

Component ID: RBCN-0004

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars and Naked Eye

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 350 Ft./CDS

Light Verification Times: 0800 / 1700 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X

	Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—
2) Cracking	X	—	—	—
3) Delaminations	X	—	—	—
4) Honeycomb	X	—	—	—
5) Water In Leakage	X	—	—	—
6) Chemical Leaching	X	—	—	—
7) Popouts	X	—	—	—
8) Deflection	X	—	—	—
9) Staining	X	—	—	—
10) Discoloration	X	—	—	—
11) Vibration Damage	X	—	—	—

Non-Coated Areas X

	Sat	Unsat	N/A	See Comments
12) Reinforcing Bar Corrosion	X	—	—	—
13) Rust Bleeding	X	—	—	—
14) Tendon Surface Cracking	X	—	—	—
15) Efflorescense	X	—	—	—
16) Cosmetic Patch Bond	X	—	—	—
17) Voids	X	—	—	—
18) Erosion	X	—	—	—
19) Pitting	X	—	—	—
20) Abrasion	X	—	—	—
21) Segregation	X	—	—	—
22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated, some were not.

Results: Sat ☑ Unsat ☐ | **Examination Performed Online 2001**

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	9/7/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe C. Lese	11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/7/01	C. Colarte /	Carlos Colarte	12-10-01

Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0005 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-288

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 1

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 119' to EL. 129'

Drawing No.: S-425-002 (Rev. 1) | Description: RBCN-0005

System ID: Concrete Containment

Component ID: RBCN-0005

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars and Naked Eye

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 350 Ft./CDS

Light Verification Times: 0800 / 1700 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X

	Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—
2) Cracking	X	—	—	—
3) Delaminations	X	—	—	—
4) Honeycomb	X	—	—	—
5) Water In Leakage	X	—	—	—
6) Chemical Leaching	X	—	—	—
7) Popouts	X	—	—	—
8) Deflection	X	—	—	—
9) Staining	X	—	—	—
10) Discoloration	X	—	—	—
11) Vibration Damage	X	—	—	—

Non-Coated Areas X

	Sat	Unsat	N/A	See Comments
12) Reinforcing Bar Corrosion	X	—	—	—
13) Rust Bleeding	X	—	—	—
14) Tendon Surface Cracking	X	—	—	—
15) Efflorescense	X	—	—	—
16) Cosmetic Patch Bond	X	—	—	—
17) Voids	X	—	—	—
18) Erosion	X	—	—	—
19) Pitting	X	—	—	—
20) Abrasion	X	—	—	—
21) Segregation	X	—	—	—
22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated. some were not.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	9/7/01	Paul A. Wright / Level III	Paul Wright	11/12/01
N/A	N/A			Site Review: Joe Lese, PE	Joe D. Lese	11-14-01
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/7/01	ANII Review: C. Colarte	Carlos A. Colarte	12-10-01

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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0006 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-289

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 1

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 119' to EL. 143'

Drawing No.: S-425-001, S-425-002 (Rev. 1) | Description: RBCN-0006

System ID: Concrete Containment

Component ID: RBCN-0006

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars and Naked Eye

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 350 Ft./CDS

Light Verification Times: 0800 / 1700 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X

	Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—
2) Cracking	X	—	—	—
3) Delaminations	X	—	—	—
4) Honeycomb	X	—	—	—
5) Water In Leakage	X	—	—	—
6) Chemical Leaching	X	—	—	—
7) Popouts	X	—	—	—
8) Deflection	X	—	—	—
9) Staining	X	—	—	—
10) Discoloration	X	—	—	—
11) Vibration Damage	X	—	—	—

Non-Coated Areas X

	Sat	Unsat	N/A	See Comments
12) Reinforcing Bar Corrosion	X	—	—	—
13) Rust Bleeding	X	—	—	—
14) Tendon Surface Cracking	X	—	—	—
15) Efflorescense	X	—	—	—
16) Cosmetic Patch Bond	X	—	—	—
17) Voids	X	—	—	—
18) Erosion	X	—	—	—
19) Pitting	X	—	—	—
20) Abrasion	X	—	—	—
21) Segregation	X	—	—	—
22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated. some were not.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	9/7/01	Paul A. Wright / Level III	Paul Wright	11/12/01
N/A	N/A			Joe Lese, PE	Joe C. Lese	11-14-01
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/7/01	C. Colarte	Carlos R. Colarte	12-10-01

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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0007 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-290

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 1

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 118' 4" to EL. 146'

Drawing No.: S-425-001 (Rev. 1) | Description: RBCN-0007

System ID: Concrete Containment

Component ID: RBCN-0007

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars and Naked Eye

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 300 Ft./CDS

Light Verification Times: 0800 / 1530 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X

	Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—
2) Cracking	X	—	—	—
3) Delaminations	X	—	—	—
4) Honeycomb	X	—	—	—
5) Water In Leakage	X	—	—	—
6) Chemical Leaching	X	—	—	—
7) Popouts	X	—	—	—
8) Deflection	X	—	—	—
9) Staining	X	—	—	—
10) Discoloration	X	—	—	—
11) Vibration Damage	X	—	—	—

Non-Coated Areas X

	Sat	Unsat	N/A	See Comments
12) Reinforcing Bar Corrosion	X	—	—	—
13) Rust Bleeding	X	—	—	—
14) Tendon Surface Cracking	X	—	—	—
15) Efflorescense	X	—	—	—
16) Cosmetic Patch Bond	X	—	—	—
17) Voids	X	—	—	—
18) Erosion	X	—	—	—
19) Pitting	X	—	—	—
20) Abrasion	X	—	—	—
21) Segregation	X	—	—	—
22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated. some were not.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	9/7/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe Lese	11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/7/01	C. Colarte /	Carl R. Colarte	12-10-01

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Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0008	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-291
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 1

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 143' to EL. 167'

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0008

System ID: Concrete Containment

Component ID: RBCN-0008

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Binoculars

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: 350 Ft./CDS

Light Verification Times: 0800 / 1545 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X

	Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—
2) Cracking	X	—	—	—
3) Delaminations	X	—	—	—
4) Honeycomb	X	—	—	—
5) Water In Leakage	X	—	—	—
6) Chemical Leaching	X	—	—	—
7) Popouts	X	—	—	—
8) Deflection	X	—	—	—
9) Staining	X	—	—	—
10) Discoloration	X	—	—	—
11) Vibration Damage	X	—	—	—

Non-Coated Areas X

	Sat	Unsat	N/A	See Comments
12) Reinforcing Bar Corrosion	X	—	—	—
13) Rust Bleeding	X	—	—	—
14) Tendon Surface Cracking	X	—	—	—
15) Efflorescense	X	—	—	—
16) Cosmetic Patch Bond	X	—	—	—
17) Voids	X	—	—	—
18) Erosion	X	—	—	—
19) Pitting	X	—	—	—
20) Abrasion	X	—	—	—
21) Segregation	X	—	—	—
22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated. some were not.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D Brown	9/7/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe A. Lese	11-14-01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/7/01	C. Colarte /	Carlos A. Colarte	12-10-01

Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0009 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-292

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 1

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 162' to EL. 200' 4"

Drawing No.: S-425-002 (Rev. 1) | Description: RBCN-0009

System ID: Concrete Containment

Component ID: RBCN-0009

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars and Naked Eye

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 400 Ft./CDS

Light Verification Times: 0800 / 1645 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas X

	Sat	Unsat	N/A	See Comments
1) Spalling	X	—	—	—
2) Cracking	X	—	—	—
3) Delaminations	X	—	—	—
4) Honeycomb	X	—	—	—
5) Water In Leakage	X	—	—	—
6) Chemical Leaching	X	—	—	—
7) Popouts	X	—	—	—
8) Deflection	X	—	—	—
9) Staining	X	—	—	—
10) Discoloration	X	—	—	—
11) Vibration Damage	X	—	—	—

Non-Coated Areas X

	Sat	Unsat	N/A	See Comments
12) Reinforcing Bar Corrosion	X	—	—	—
13) Rust Bleeding	X	—	—	—
14) Tendon Surface Cracking	X	—	—	—
15) Efflorescense	X	—	—	—
16) Cosmetic Patch Bond	X	—	—	—
17) Voids	X	—	—	—
18) Erosion	X	—	—	—
19) Pitting	X	—	—	—
20) Abrasion	X	—	—	—
21) Segregation	X	—	—	—
22) Other	—	—	X	—

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.
Note: Some surface areas were coated. some were not.

Results: Sat ☑ Unsat ☐ | **Examination Performed Online 2001**

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	9/7/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe O. Lese	11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/7/01	C. Colarte /	Carlos A. Colarte	12-10-01

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Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0010	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-293
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6"

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0010

System ID: Concrete Containment

Component ID: RBCN-0010

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Binoculars

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 1000 Ft./CDS

Light Verification Times: 0800 / 1500 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	_	X	_	_
2) Cracking	_	X	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	_	X	_	_
7) Popouts	X	_	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	X	_	_

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	9/7/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
N/A	N/A			Site Review: Joe Lese, PE	J. B. Lese	11.14.01
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/7/01	C. Colarte	Carlos Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CCC	Date:	12-10-01

Comments:

Concrete surface between CL of Buttress #4 and CL of Buttress #5. See attached pages for referenced photo locations (approx.).

Item #1 (Reference Page 1 - Condition 17): Void, approximately 5" diameter, unknown depth, with possible exposed rebar (reference pic #73).

Item #2 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth with no exposed rebar (reference pic #74).

Item #3 (Reference Page 1 - Condition 2): Crack > .040", @ top of ring girder, near the 4th vertical section of handrail left (south) of vent/stack (reference pic #75).

Item #4 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth with exposed rebar @ the top edge of the ring girder at the 3rd vertical section right of Buttress #4 CL (reference pic #76).

Item #5 (Reference Page 1 - Condition 2): Crack > .040" near lower right corner of bearing plate (reference pic #77).

Item #6 (Reference Page 1 - Condition 22): Two (2) abandoned 5/8" anchors.

Item #7 (Reference Page 1 - Condition 22): Approximately 30 - 35 ungrouted form tie holes.

Item #8 (Reference Page 1 - Condition 22): Two (2) embeded boxes into concrete.

Item #9 (Reference Page 1 - Condition 22): Eight (8) 3/4" diameter bolts with nuts protruding.

Item #10 (Reference Page 1 - Condition 22): 4" x 4" (approx.) piece of wood embedment exists near bottom of ring girder. Note: Approximately 80% of Buttress #5 inaccessible due to HVAC vent.

Item #11 (Reference Page 1 - Condition 22): Possible wood embedments (reference pic(s) #78, #79, #80, and #81).

Florida Power
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Supplemental Report

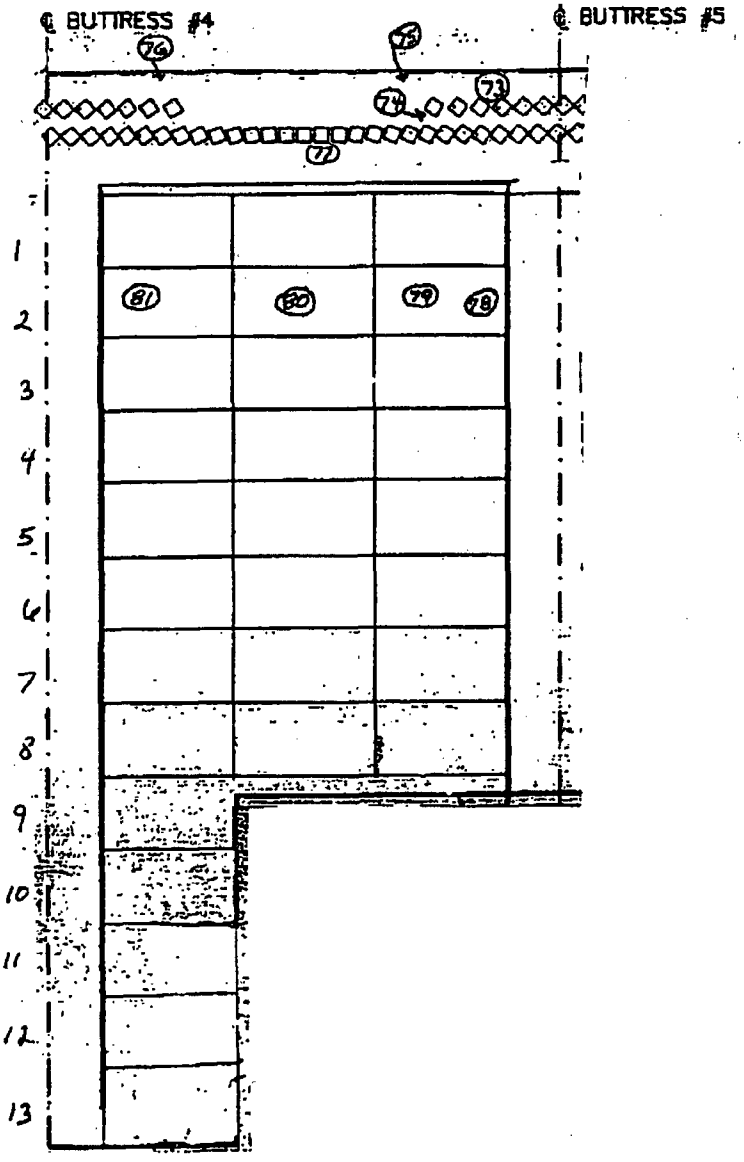
Report No.: VT-01-293

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_293a.jpg



Florida Power
A Progress Energy Company

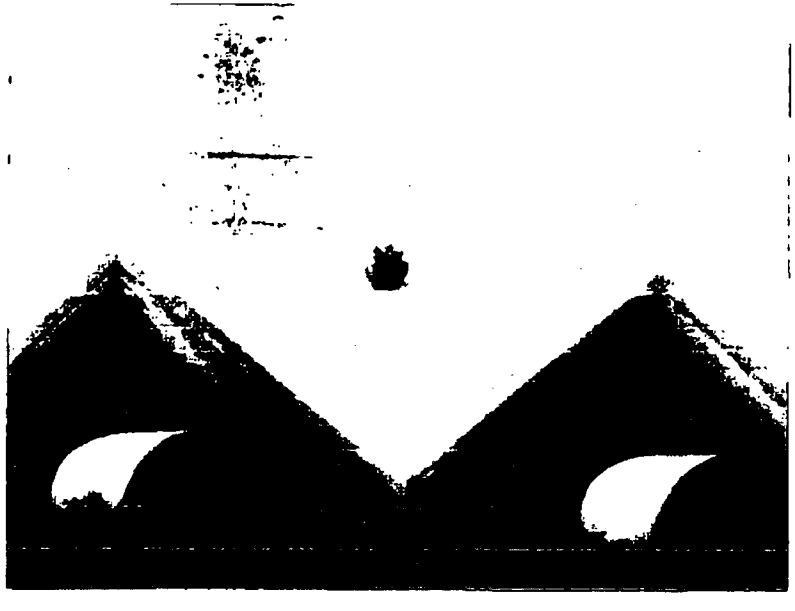
Supplemental Report

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: Pic(s) #73 and #74

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_293_pic73.JPG



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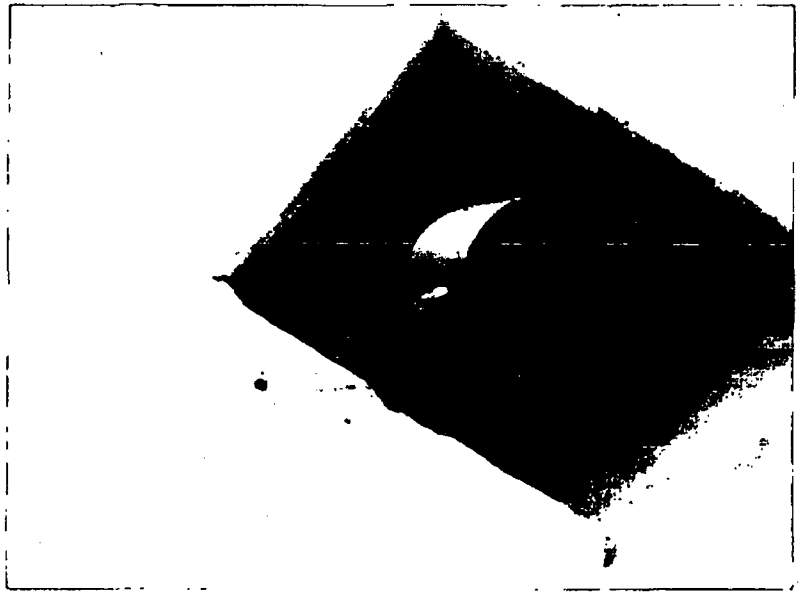

Florida Power
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Supplemental Report

Report No.: VT-01-293

Page: 5 of 6

Summary No.:	RBCN-0010						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Pic(s) #75 and #76

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_293_pic75.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_293_pic76.JPG

Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-293

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: Pic(s) #77 and #78

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_293_pic77.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_293_pic78.JPG

Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0011	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-294
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 167' to 267' 6"

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0011

System ID: Concrete Containment

Component ID: RBCN-0011

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Binoculars and Naked Eye

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 1000 Ft./CDS

Light Verification Times: 0800 / 1400 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	_	X	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	_	X	_	_
7) Popouts	_	X	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	_	X	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	X	_	_

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ **Examination Performed Online 2001**

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level II	Signature	Date	Reviewer		Signature	Date
Brown, Jerry D.	/	Jerry D Brown	9/7/01	Paul A. Wright / Level III	/	Paul A. Wright	11/12/01
Examiner	Level N/A	Signature	Date	Site Review		Signature	Date
N/A	/			Joe Lese, PE	/	Joe Lese	11-14-01
Other	Level N/A	Signature	Date	ANII Review		Signature	Date
Fuqua, Kevin K.	/	Kevin K. Fuqua	9/7/01	C. Colarte	/	[illegible]	12-10-01

Florida Power
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Supplemental Report

Summary No.:	RBCN-0011						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12.10.01

Comments:

Concrete surface between CL of Buttress #5 and CL of Buttress #6. See attached pages for referenced photo locations (approx.).

Item #1 (Reference Page 1 - Condition 22): Wood embedment @ form line 1/2, Sect. 1A (reference pic #65).

Item #2 (Reference Page 1 - Condition 7): Popouts < 2" diameter and 3/4" depth (various locations).

Item #3 (Reference Page 1 - Condition 22): Exposed form nails (various locations).

Item #4 (Reference Page 1 - Condition 17): Void. Approximately 5 x 1/2", depth unknown, adjacent to grease can on corner of Buttress #5 at form line 5/6 (reference pic #67).

Item #5 (Reference Page 1 - Condition 9): Corrosion staining at ladder attachment (reference pic #66).

Item #6 (Reference Page 1 - Condition 22): Form tie/nail patches (various locations).

Item #7 (Reference Page 1 - Condition 7): Popouts > 2" diameter, < 3/4" depth @ Buttress #6 face.

Item #8 (Reference Page 1 - Condition 9): Corrosion staining from box supports and PA speaker support (reference pic #71).

Item #9 (Reference Page 1 - Condition 22): Wood attachment @ bottom of ring girder (reference pic #68).

Item #10 (Reference Page 1 - Condition 1): Spalls > 8" and 3/4" depth @ top row, 2nd, 3rd, and 4th tendon pockets left of Buttress #6 CL (reference pic #69).

Item #11 (Reference Page 1 - Condition 2): Crack > .040" @ tendon pocket of 2nd grease can top row, right of Buttress #5 CL @ the upper right corner of the bearing plate (reference pic #70).

Item #12 (Reference Page 1 - Condition 22): Approximately 30 - 35 ungrouted form tie hole patches.

Item #13 (Reference Page 1 - Condition 7): Small popouts < 2" and 3/4" deep, and exposed form nails exist intermittently in all subsections of the concrete surface.

Item #14 (Reference Page 1 - Condition 22): Thin layers of wood (left after form removal) cover areas of concrete on the bottom side of the ring girder. Note: Approximately 80% of Buttress #5 inaccessible due to stack vent.

Florida Power
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Supplemental Report

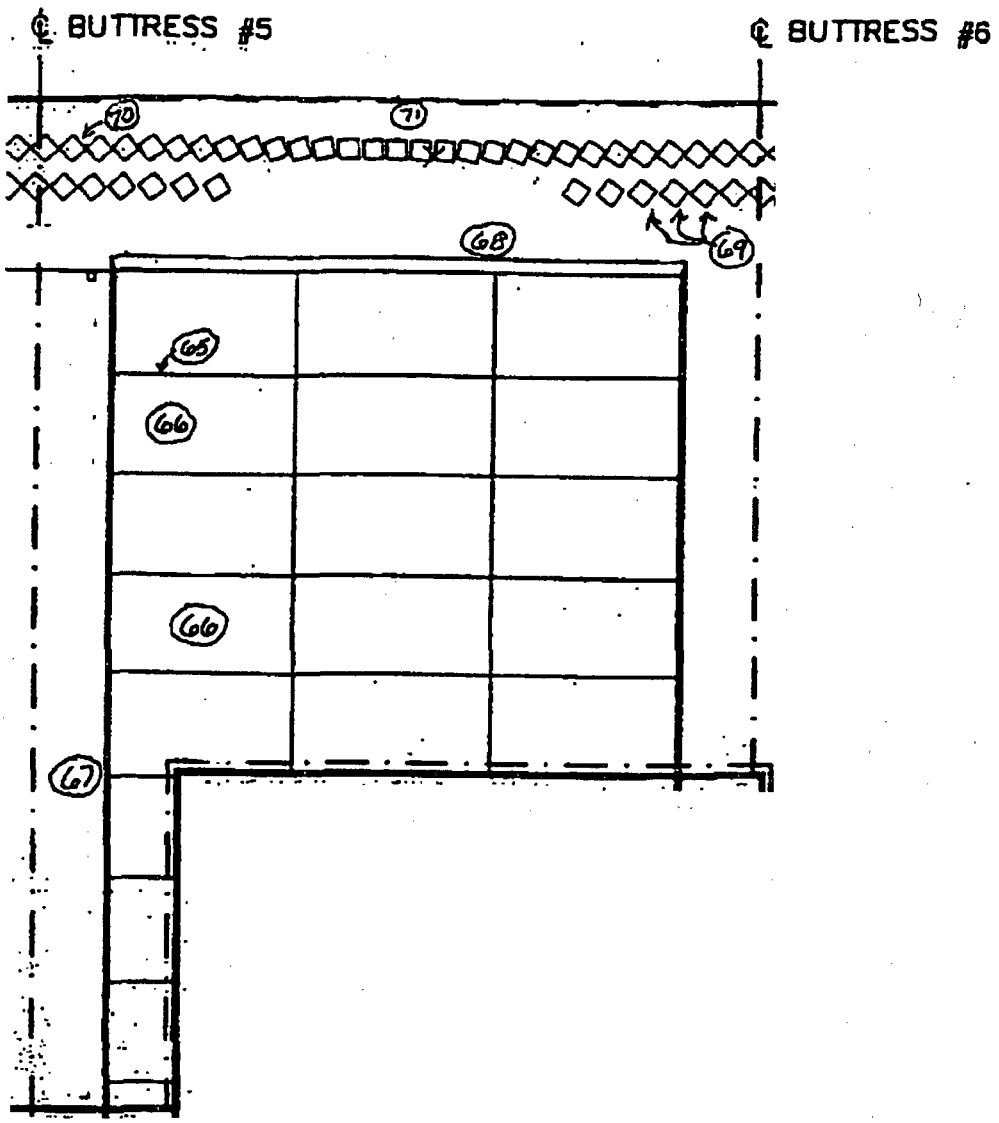
Report No.: VT-01-294

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_294a.jpg



Florida Power
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Supplemental Report

Summary No.:	RBCN-0011						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	11-14-01

Comments: Pic(s) #65 and #66

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_294_pic65.JPG

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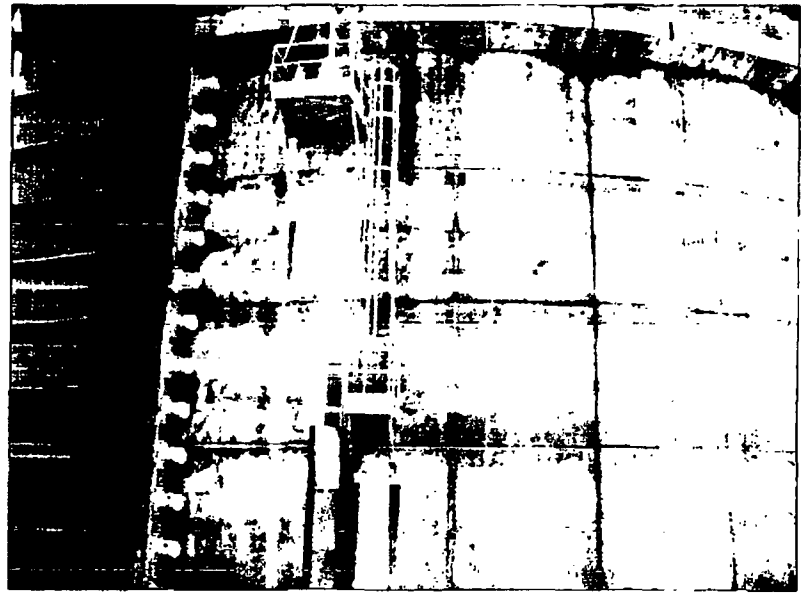

Florida Power
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Supplemental Report

Report No.: VT-01-294

Summary No.:	RBCN-0011						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CFC	Date:	12-10-01

Comments: Pic(s) #67 and #68

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_294_pic67.JPG

L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_294_pic68.JPG

Florida Power
A Progress Energy Company

Supplemental Report

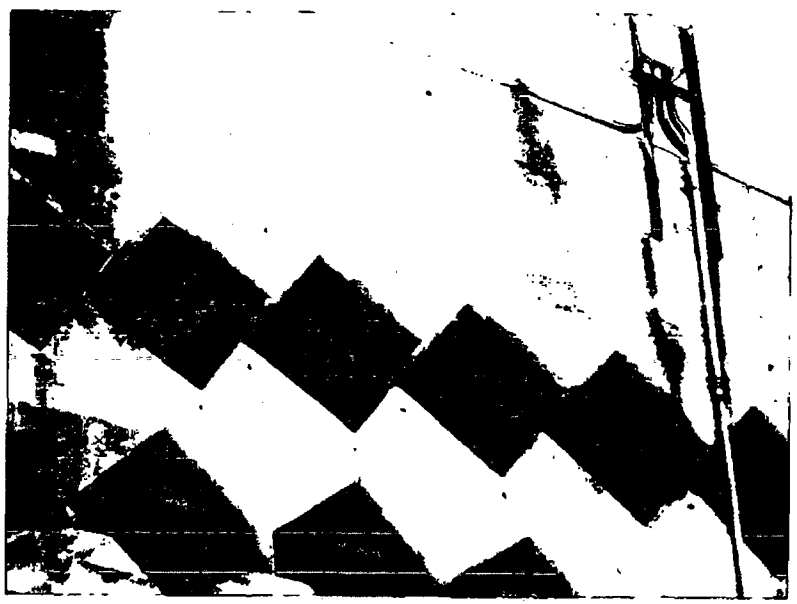
Report No.: VT-01-294

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: Pic(s) #69 and #71

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_294_pic69.JPG



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_294_pic71.JPG

Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0012	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-295
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 4

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 149' to EL. 267' 6"

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0012

System ID: Concrete Containment

Component ID: RBCN-0012

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Binoculars

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 1000 Ft./CDS

Light Verification Times: 0800 / 1530 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	X	_	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	_	_	_	X	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	X	_	_

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	9/6/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe A. Lese	11-14-01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/7/01	C. Colarte /	Carlos A. Colarte	12-6-01

Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0012

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-1-01

Comments:

Concrete surface between CL of Buttress #6 and CL of Buttress #1. See attached pages for referenced photo locations (approx.).

Item #1 (Reference Page 1 - Condition 1): Spall < 8" but > 3/4" deep @ form tile hole @ the 2nd pocket of the top row, right of Buttress #6.

Item #2 (Reference Page 1 - Condition 7): Approximately 25 ungrouted form tie holes.

Item #3 (Reference Page 1 - Condition 22): @ form line 2B / 3B wood embeded.

Item #4 (Reference Page 1 - Condition 22): Possible wood embedment on left side of Buttress #1, below the 7th can up from lower roof (reference pic #82).

Florida Power
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Supplemental Report

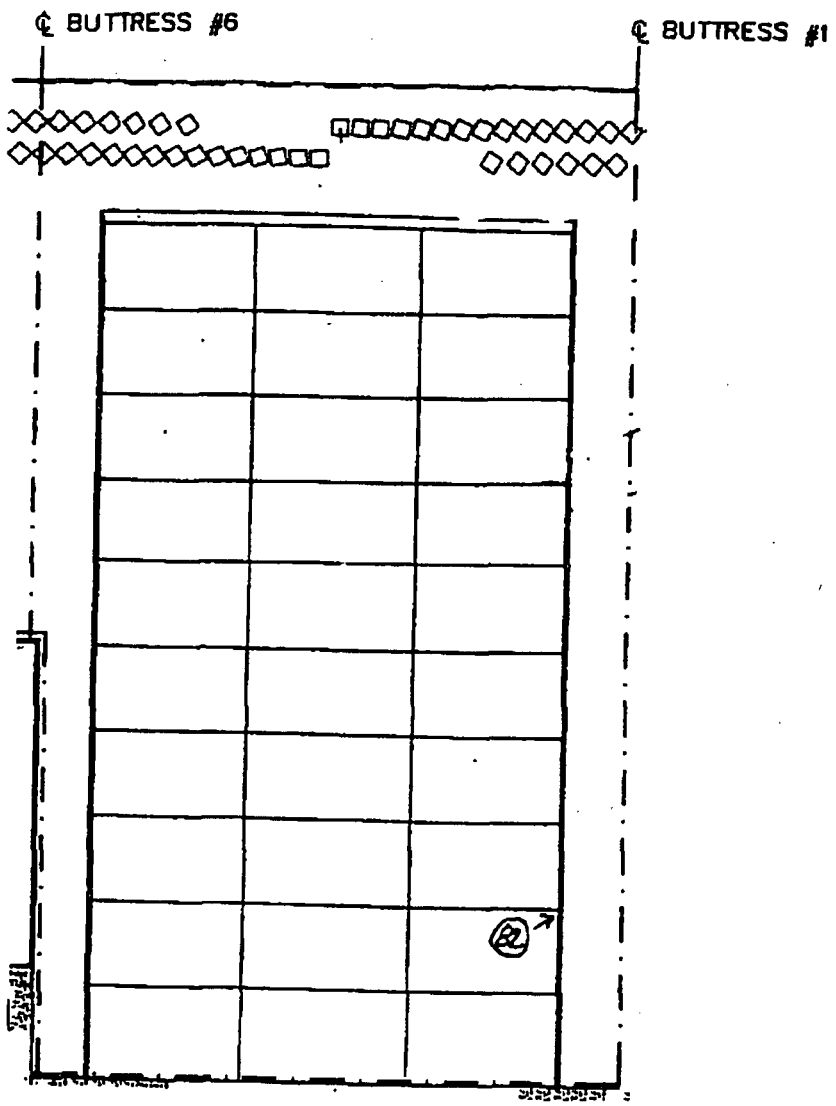
Report No.: VT-01-295

Summary No.: RBCN-0012

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_295a.jpg



Florida Power
A Progress Energy Company

Supplemental Report

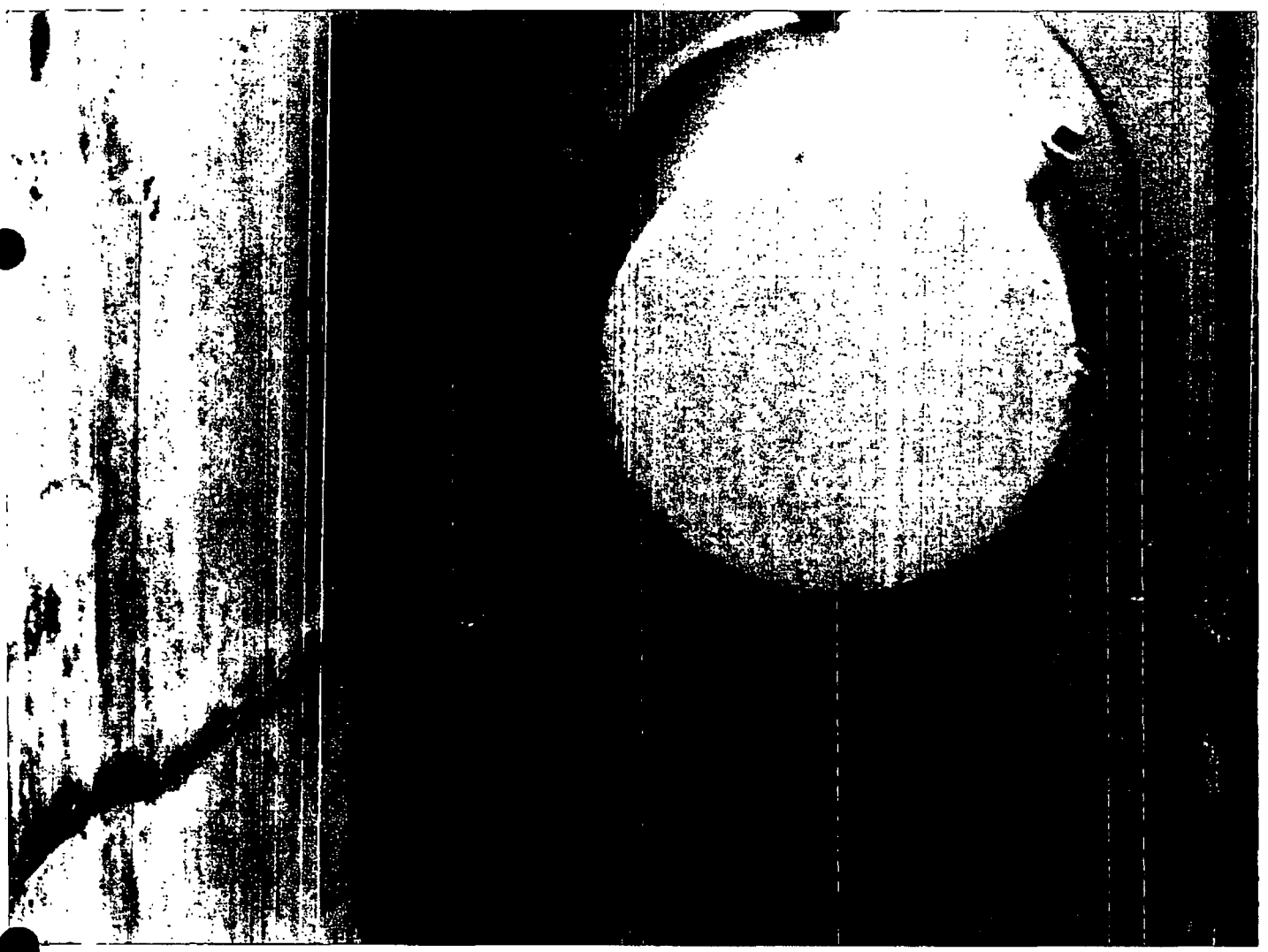
Report No.: VT-01-295

Summary No.: RBCN-0012

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: Pic #82

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_295_pic82.JPG



Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0013	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-296
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 149' to EL. 267' 6"

Drawing No.: S-425-001 (Rev. 1) Description: RBCN-0013

System ID: Concrete Containment

Component ID: RBCN-0013

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Binoculars

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 1000 Ft./CDS

Light Verification Times: 0800 / 1430 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	_	_	_	X
2) Cracking	X	_	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	_	X	_	_	15) Efflorescense	_	X	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	_	_	_	X
7) Popouts	X	_	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	X	_	_

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	9/6/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A			Joe Lese, PE	J. O. Lese	11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/7/01	C. Colarte	Carlos R. Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

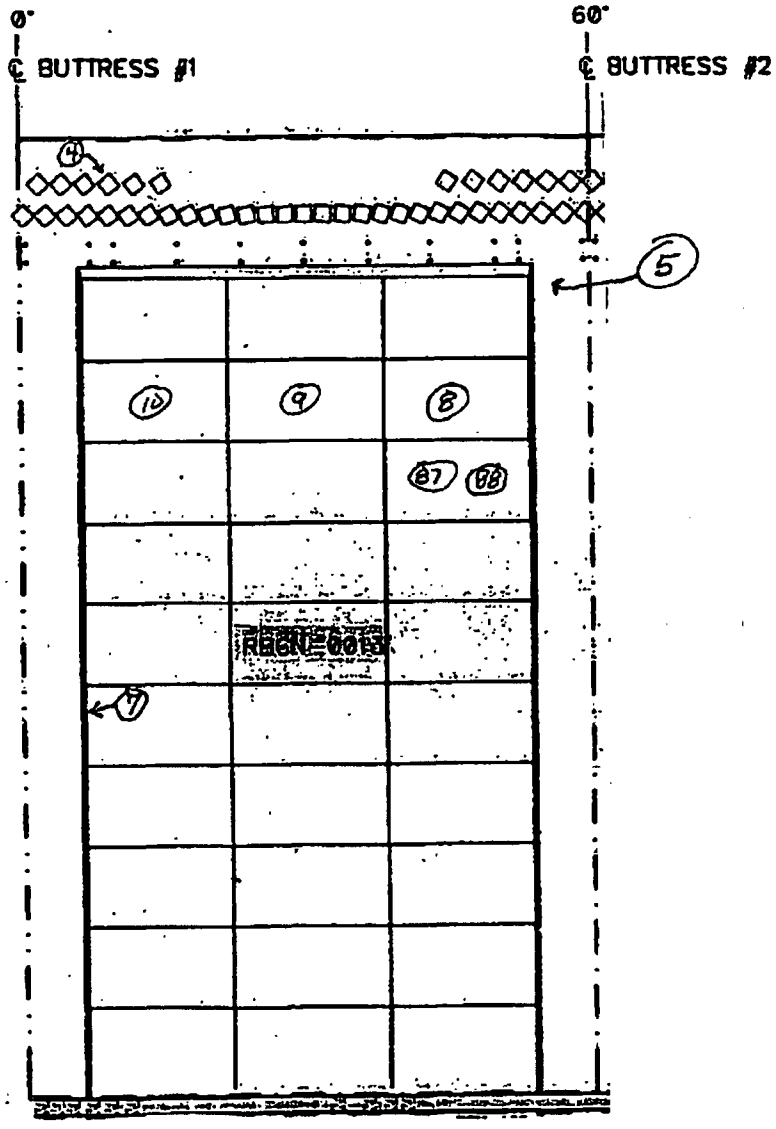
Report No.: VT-01-296

Summary No.: RBCN-0013

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_296a.jpg



Florida Power
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Supplemental Report

Summary No.:	RBCN-0013						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Concrete surface between CL of Buttress #1 and CL of Buttress #2.**

Item #1 (Reference Page 1 - Condition 17): Possible void approximately 6" diameter (reference pic #5 - Disk 2).

Item #2 (Reference Page 1 - Condition 1): Spall > 8" diameter and 3/4" depth with no exposed rebar (reference pic #4 - Disk 2).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_296_pic5.JPG L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_296_pic4.JPG

Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-296

Summary No.: RBCN-0013

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Concrete surface between CL of Buttress #1 and CL of Buttress #2.**

Item #3 (Reference Page 1 - Condition 12): Possible exposed rebar below the 16th grease can from top, on right (west) side of Buttress #1 (reference pic #7 - Disk 2).

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_296_pic7.JPG

Florida Power
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Supplemental Report

Report No.: VT-01-296
Page: 5 of 6

Summary No.:	RBCN-0013						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CXC	Date:	12-10-01

Comments: **Concrete surface between CL of Buttress #1 and CL of Buttress #2.**

Item #4 (Reference Page 1 - Condition 22): Existing wood attachments from forms (reference pic(s) #8, #9, and #10 - Disk 2).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_296_pic8.JPG

L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_296_pic10.JPG

Florida Power
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Supplemental Report

Report No.: VT-01-296

Page: 6 of 6

Summary No.:	RBCN-0013						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Concrete surface between CL of Buttress #1 and CL of Buttress #2.**

Item #5 (Reference Page 1 - Conditions 4 and 15): Honeycomb areas with efflorescense (reference pic(s) #87 and #88).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_296_pic87.JPG

L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_296_pic88.JPG

Florida Power
A Progress Energy Company

Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A
Summary No.: RBCN-0014 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-297
Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 6

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 119' to EL. 276' 6"
Drawing No.: S-425-001 (Rev. 1) | Description: RBCN-0014
System ID: Concrete Containment
Component ID: RBCN-0014
Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation
Surface Condition: As Found | Visual Equipment/Aids: Binoculars
Inspected From: Outside Containment ◉ Both ○
Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 275 Ft./CDS
Light Verification Times: 0800 / 1400 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	_	X	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	_	X	_	_	15) Efflorescense	_	X	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	_	_	_	X	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	X	_	_

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001
Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	09/07/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A			Joe Lese, PE	Joe C. Lese	11-14-01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	09/07/01	C. Colarte	Carlos Colarte	12-12-01

Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-297

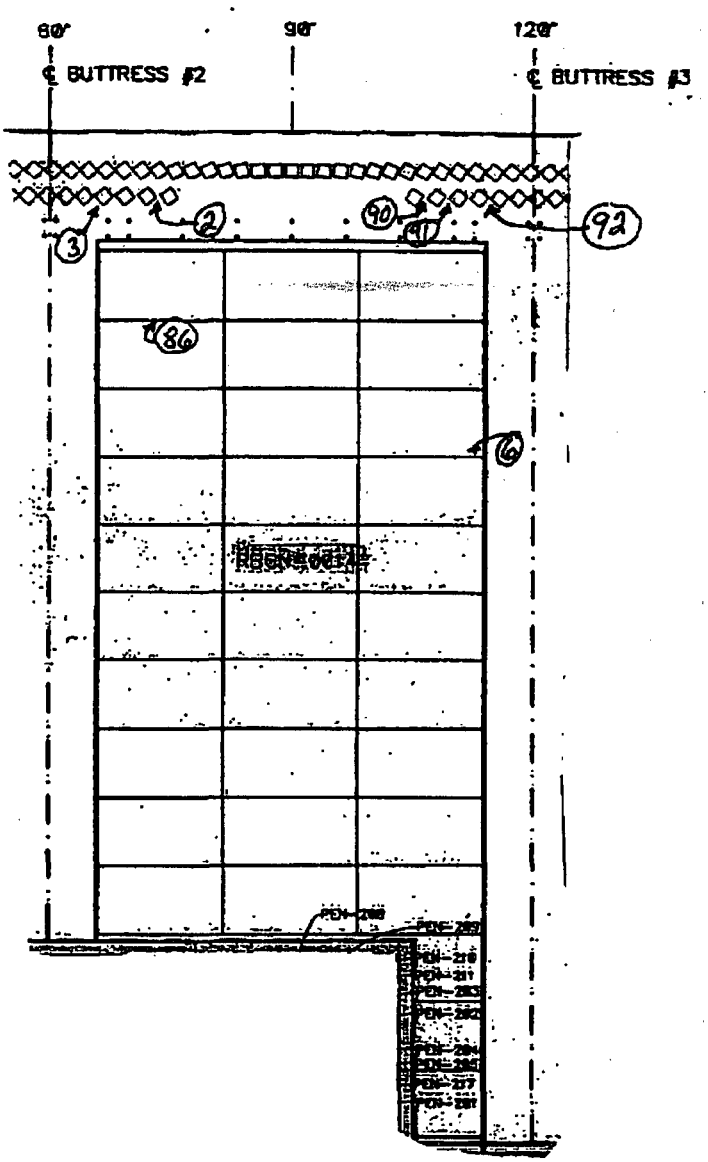
Summary No.: RBCN-0014

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments: **Approximate Photo Locations**

Concrete surface between CL of Buttress #2 and CL of Buttress #3. See attached pages for referenced photo locations (approx.).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_297a.jpg



Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-297

Summary No.: RBCN-0014

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: Item #1 (Reference Page 1 - Condition 22): @ face of Buttress #3, left side @ form line 6/7 - grout patch over form line (reference pic #4). Item #2 (Reference Page 1 - Condition 7): @ face of Buttress #3, left side, just below form line 7/8 - minor popouts < 2" diameter and 3/4" deep. Item #3 (Reference Page 1 - Condition 22): General area on left side of the face, of Buttress #3 has small form nail/form tie patches and small bugholes < 2" and 3/4" deep exist. Item #4 (Reference Page 1 - Condition 7): @ area 6C, between Buttress #2 and Buttress #3 - popouts < 2" diameter and 3/4" deep exist. Item #5 (Reference Page 1 - Condition 22): @ area 7C, between Buttress #2 and Buttress #3 - form tie hole patches exist. Item #6 (Reference Page 1 - Condition 7): @ area 8C, between Buttress #2 and Buttress #3 - form tie hole patches and popouts < 2" diameter and 3/4" deep exist. Item #7 (Reference Page 1 - Condition 22): @ area 9C, between Buttress #2 and Buttress #3 - bugholes < 2" diameter and 3/4" deep exist. Form tie hole patches exist. Exposed form nail ends with rust and stain exists. Item #8 (Reference Page 1 - Condition 2): Crack > .040" exists between the 2nd and 3rd dome pockets left from Buttress #3 CL (reference pic #92).

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_297_pic92.JPG

Florida Power
A Progress Energy Company

Supplemental Report

Summary No.:	RBCN-0014						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CK	Date:	12-10-01

Comments: **Item #9 (Reference Page 1 - Condition 2): Crack > .040" exists between the 4th and 5th dome pockets left from Buttress #3 CL (reference pic #91).**

Item #10 (Reference Page 1 - Condition 2): Crack > .040" exists between the 5th and 6th dome pockets left from Buttress #3 CL (reference pic #90).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_297_pic91.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_297_pic90.JPG

Florida Power
A Progress Energy Company

Supplemental Report

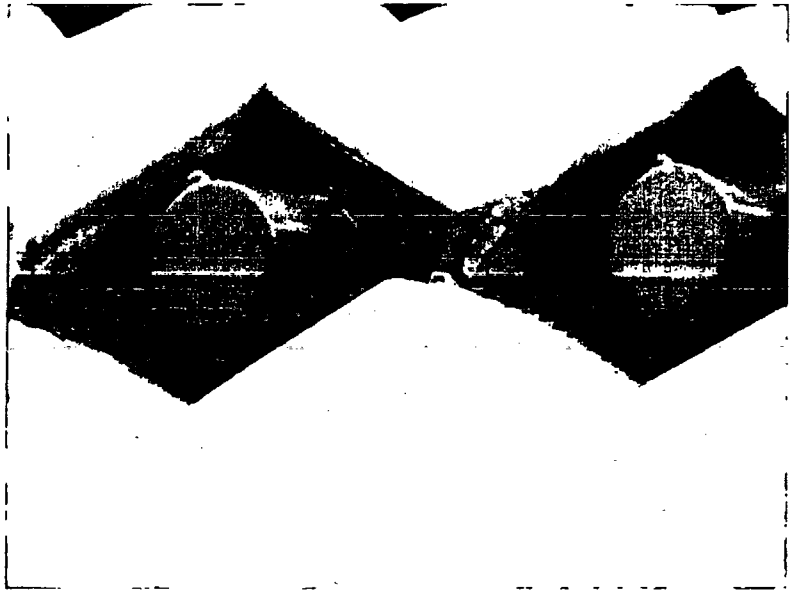
Report No.: VT-01-297

Summary No.:	RBCN-0014						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments: **Item #11 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth exposing portion of bearing plate (reference pic #2 - Disk 2).**

Item #12 (Reference Page 1 - Condition 1): Two (2) spalls > 8" and 3/4" depth with no exposed rebar (reference pic #3 - Disk 2).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_297_pic2.JPG



L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_297_pic3.JPG

Florida Power
A Progress Energy Company

Supplemental Report

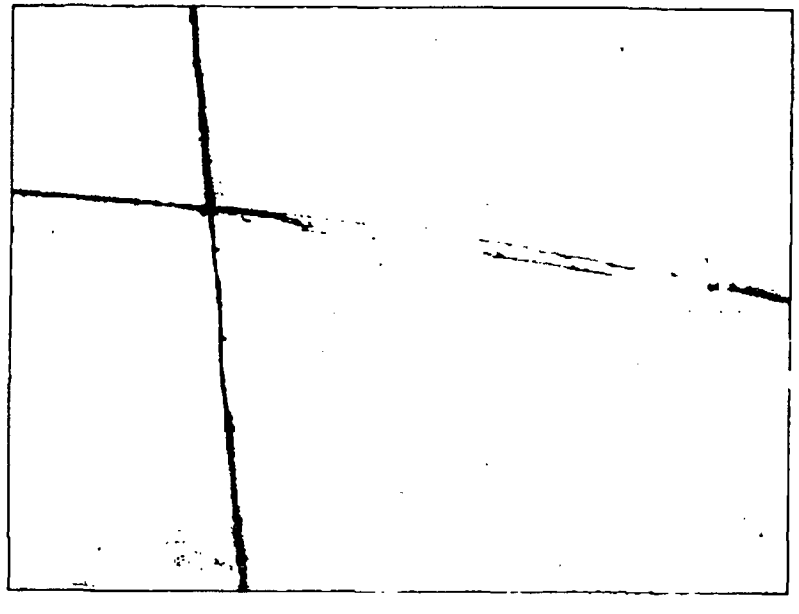
Summary No.:	RBCN-0014						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JDL	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-4-01

Comments: Item #13 (Reference Page 1 - Condition 22): Wood embedment @ pour line 1B / 2B (reference pic #86).

Item #14 (Reference Page 1 - Condition 22): Embedded elect box.

Item #15 (Reference Page 1 - Condition 2): Crack > .040" @ pour line 3C / 4C adjacent to left side of Buttress #3 (reference pic #6 - Disk 2).

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_297_pic86.JPG



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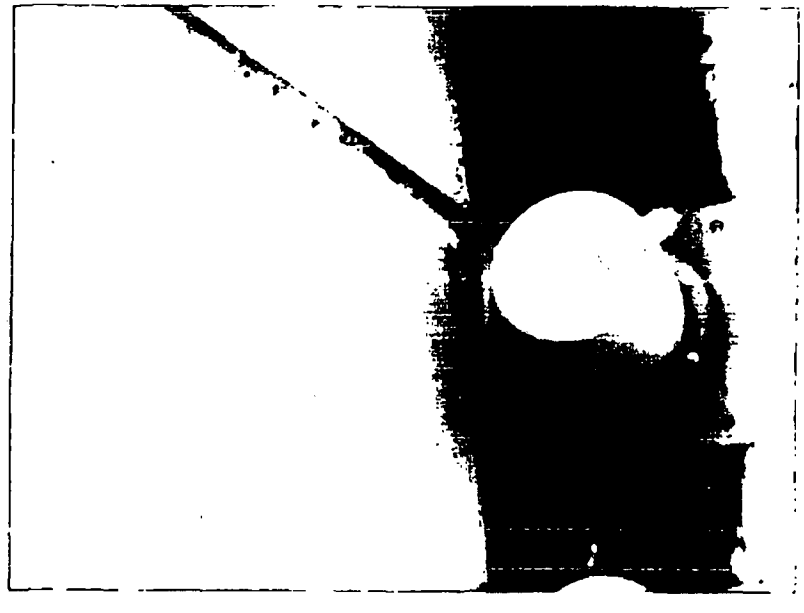


Florida Power
A Progress Energy Company

Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0015 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-298

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 6

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 119' to EL. 267' 6"

Drawing No.: S-425-001 (Rev. 1) | Description: RBCN-0015

System ID: Concrete Containment

Component ID: RBCN-0015

Limitations: Remote

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Binoculars

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 275 Ft./CDS

Light Verification Times: 0800 / 1400 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	_	X	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	_	X	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	X	_	_

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D. /	II	Jerry D. Brown	09/07/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A /	N/A			Joe Lese, PE /	Joe A. Lese	11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K. /	N/A	Kevin K. Fuqua	09/07/01	C. Colarte /	Carlos Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-298

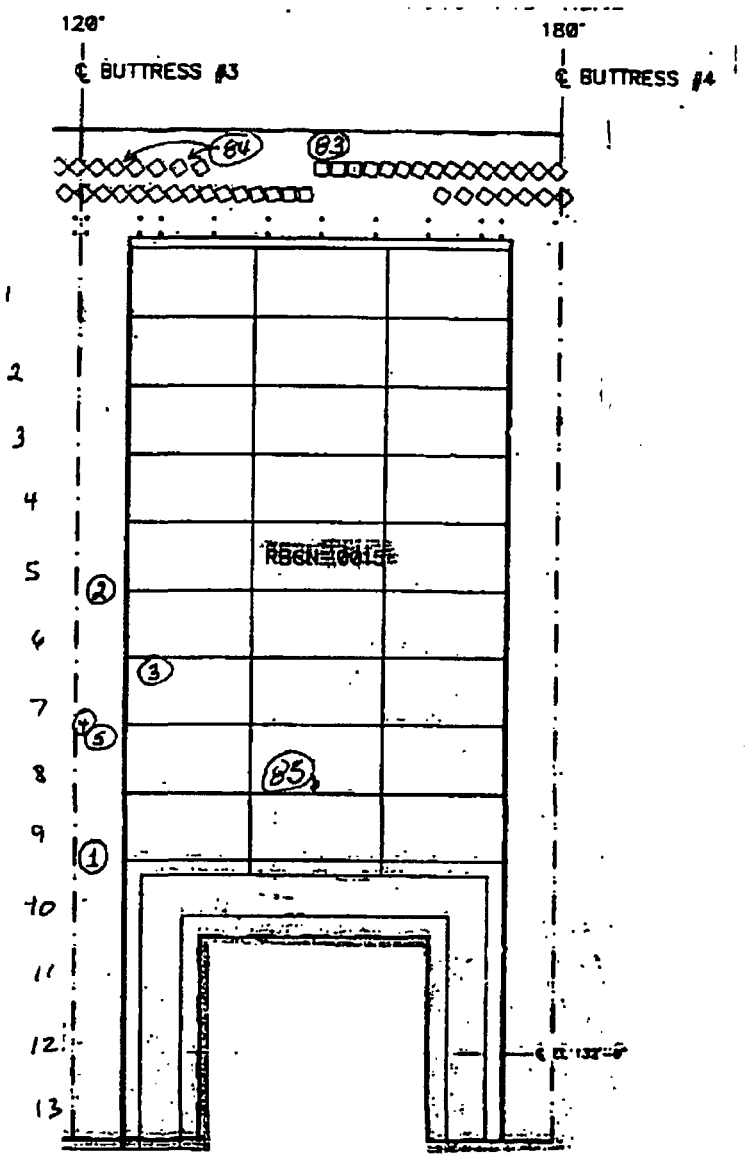
Summary No.: RBCN-0015

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Concrete surface between CL of Buttress #3 and CL of Buttress #4. See attached pages for referenced photo locations (approx.).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_298a.jpg



Florida Power
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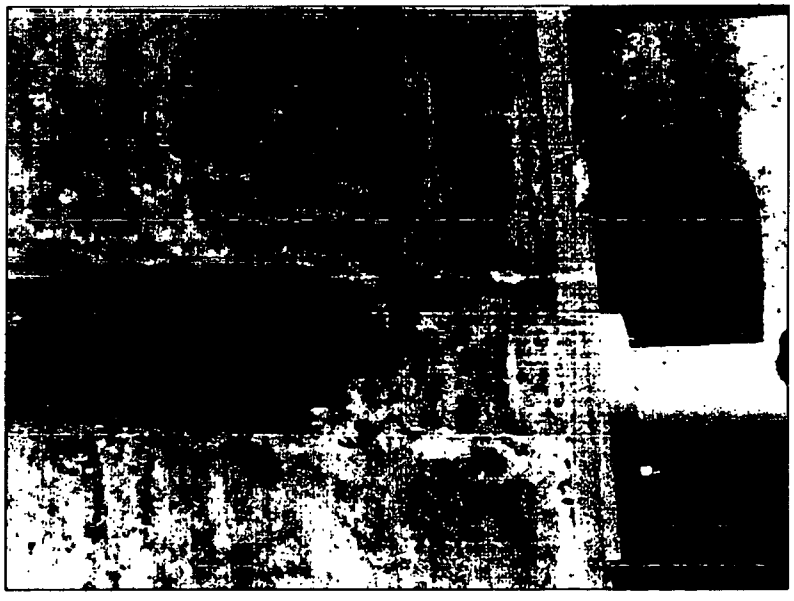
Supplemental Report

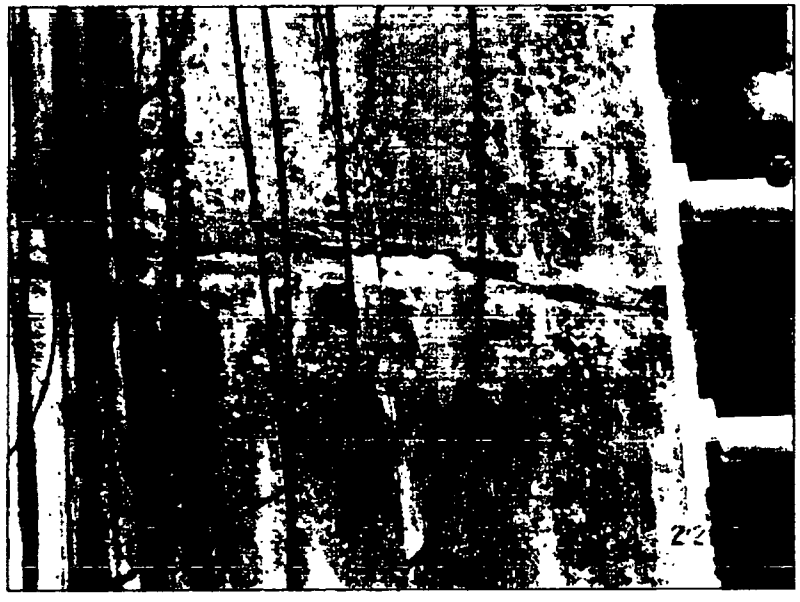
Summary No.:	RBCN-0015						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #1 (Reference Page 1 - Condition 22): @ face of Buttress #3, right side @ form line 9/10 - exposed form nails and uneven concrete (reference pic #1).**

Item #2 (Reference Page 1 - Condition 22): @ face of Buttress #3, right side @ form line 5/6 - exposed form nails with rust and stain, and misc. bugholes < 2" diameter and 3/4" deep (reference pic #2).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_298_pic1.JPG L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_298_pic2.JPG





Florida Power
A Progress Energy Company

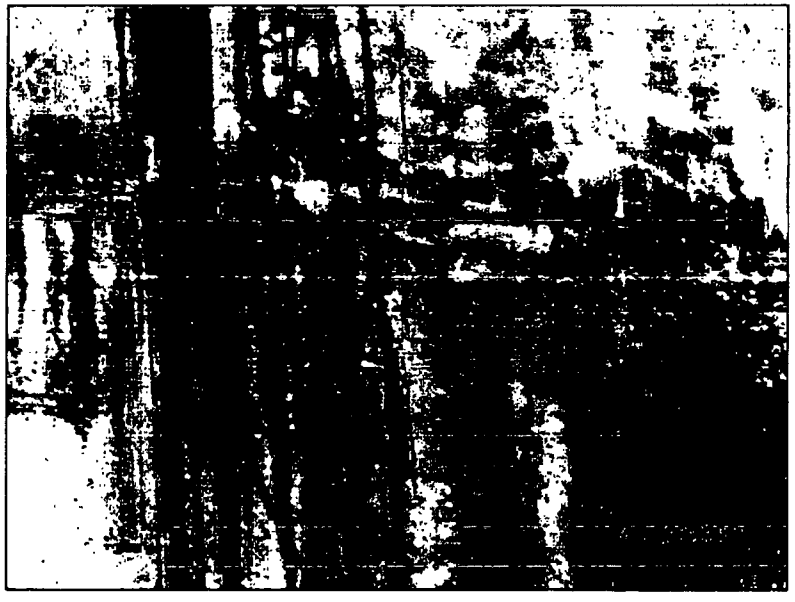
Supplemental Report

Report No.: VT-01-298

Summary No.:	RBCN-0015						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Item #3 (Reference Page 1 - Condition 7): @ face of Buttress #3, right side below form line 6/7 - popout > 2" x 3/4" diameter (reference pic #3).
Item #5 (Reference Page 1 - Condition 22): General area on face of Buttress #3 on right side has small form nail/form tie patches and small bugholes.
Item #6 (Reference Page 1 - Condition 7): Popouts < 2" diameter and 3/4" depth and grout patch over cold joint (reference pic #4).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_298_pic3.JPG



L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_298_pic4.JPG

Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-298

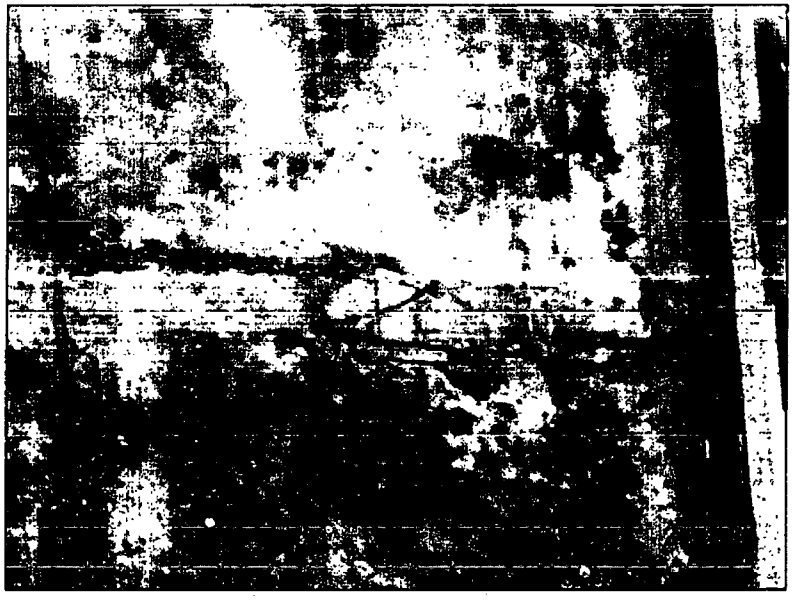
Page: 5 of 6

Summary No.: RBCN-0015

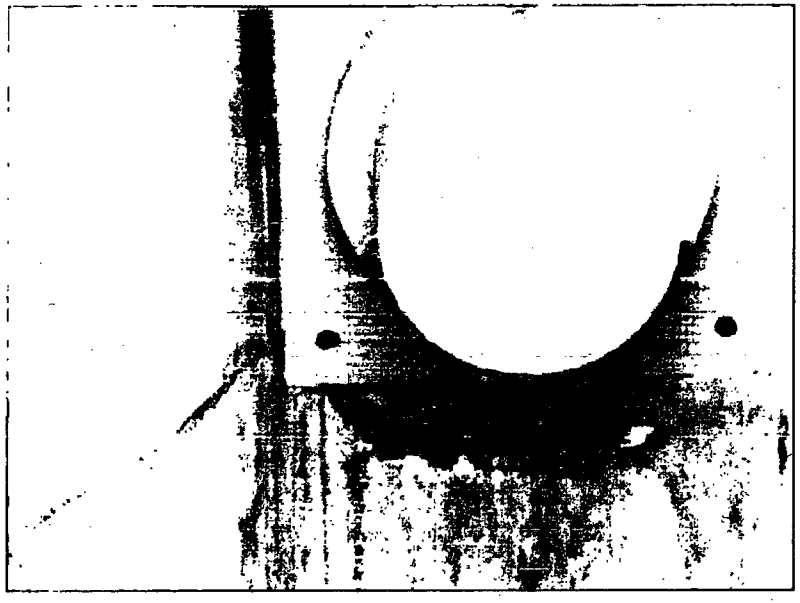
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: Item #4 (Reference Page 1 - Condition 22): @ face of Buttress #3, right side below form line 7/8 - embedded #9 wire with rust and stain (reference pic #5).
Item #7 Deleted.
Item #8 (Reference Page 1 - Condition 2): Possible crack > .040" approximately 4' below top of ring girder (reference pic #83).
Item #9 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" deep with no exposed rebar (reference pic #84).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_298_pic5.JPG



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_298_pic84.JPG



Florida Power
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Supplemental Report

Report No.: VT-01-298

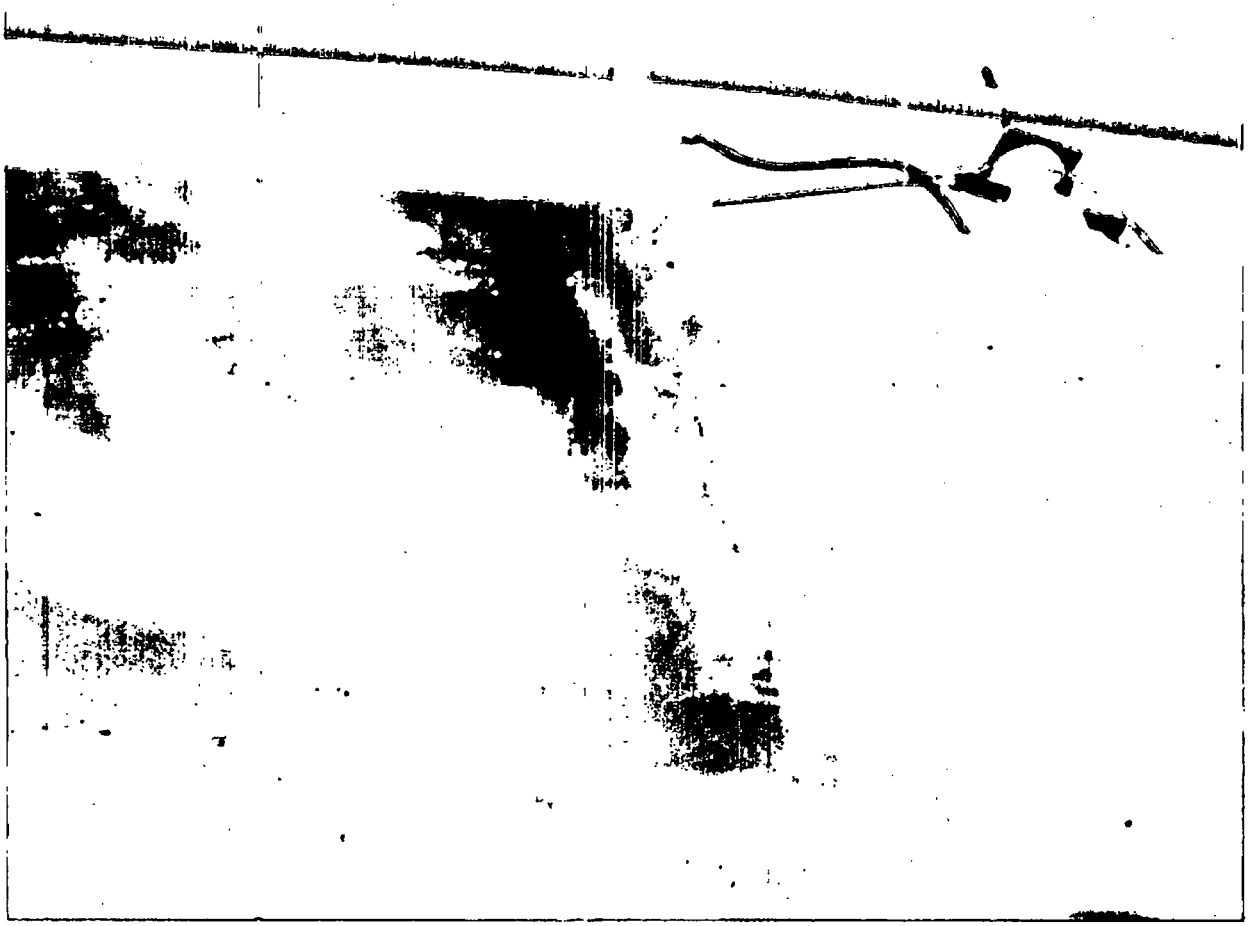
Page: 6 of 6

Summary No.: RBCN-0015

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Item #10 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" deep @ bottom edge of ring girder.
Item #11 (Reference Page 1 - Condition 22): Embedded wood @ form line 8B / 9B (reference pic #85).
Item #12 (Reference Page 1 - Condition 22): Exposed cable protruding through concrete (reference pic # 12 - Disk 2).
Item #13 (Reference Page 1 - Condition 7): Popout > 2" and 3/4" deep, Level 13.
Item #14 (Reference Page 1 - Condition 22): Wood embedment (reference pic #13 - Disk 2).
Item #15 (Reference Page 1 - Condition 22): Wood embedment intermittently in all pour levels in CL of Buttress #3 (reference pic #15,16 - Disk 2).
Item #16 (Reference Page 1 - Condition 1): Form nail spall < 8" but deeper than 3/4" (reference pic #14 - Disk 2).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_298_pic85.JPG



Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0016 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-306

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 4

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: Dome EL. 267' 6"

Drawing No.: S-425-003 (Rev. 1) | Description: RBCN-0016 (General)

System ID: Concrete Containment

Component ID: RBCN-0016 (General)

Limitations: Direct

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Machinist Scale, Resolution Card VT3-02

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 525 / 600 Ft./CDS

Light Verification Times: 09:15 / 14:30 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	_	X	_	12) Reinforcing Bar Corrosion	_	_	X	_
2) Cracking	_	_	X	_	13) Rust Bleeding	_	_	_	X
3) Delaminations	_	_	X	_	14) Tendon Surface Cracking	_	_	X	_
4) Honeycomb	_	_	X	_	15) Efflorescense	_	_	X	_
5) Water In Leakage	_	_	X	_	16) Cosmetic Patch Bond	_	_	X	_
6) Chemical Leaching	_	_	X	_	17) Voids	_	_	X	_
7) Popouts	_	_	X	_	18) Erosion	_	_	X	_
8) Deflection	_	_	X	_	19) Pitting	_	_	X	_
9) Staining	_	_	X	_	20) Abrasion	_	_	X	_
10) Discoloration	_	_	X	_	21) Segregation	_	_	X	_
11) Vibration Damage	_	_	X	_	22) Other	_	_	_	X

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001. General conditions recorded for all of dome area, refer specific dome inspections for detailed information.

Results: Sat ☑ Unsat ☐ | **Examination performed on-line 2001**

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	9/6/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	J. C. Lese	11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/6/01	C. Colarte /	Carlos Colarte	12/1/01

Florida Power
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Supplemental Report

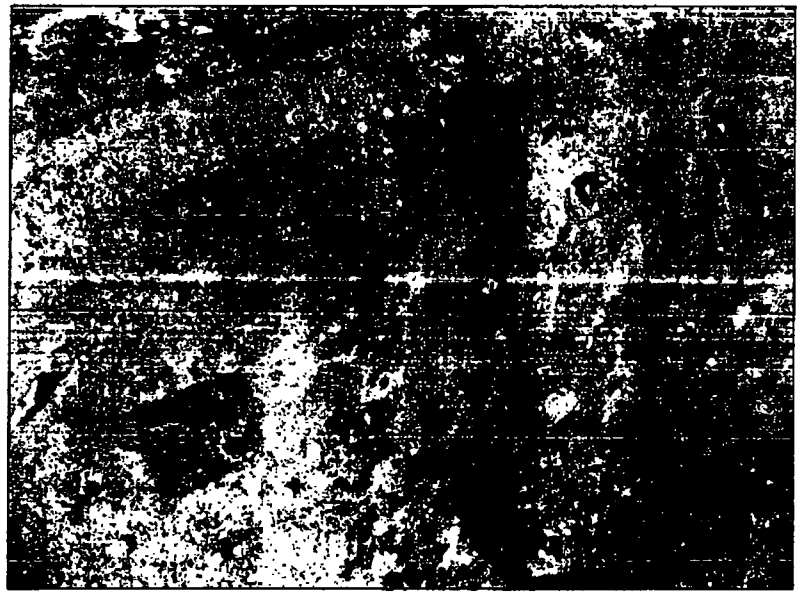
Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Item #1 (Reference Page 1 - Condition 22): Intermittant areas of form tie-in and patches over dome area (reference pic #10).**

Item #2 (Reference Page 1 - Condition 22): Intermittant areas of bug holes over dome area (reference pic #12).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_306_pic10.JPG

L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_306_pic12.JPG



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Supplemental Report

Report No.: VT-01-306

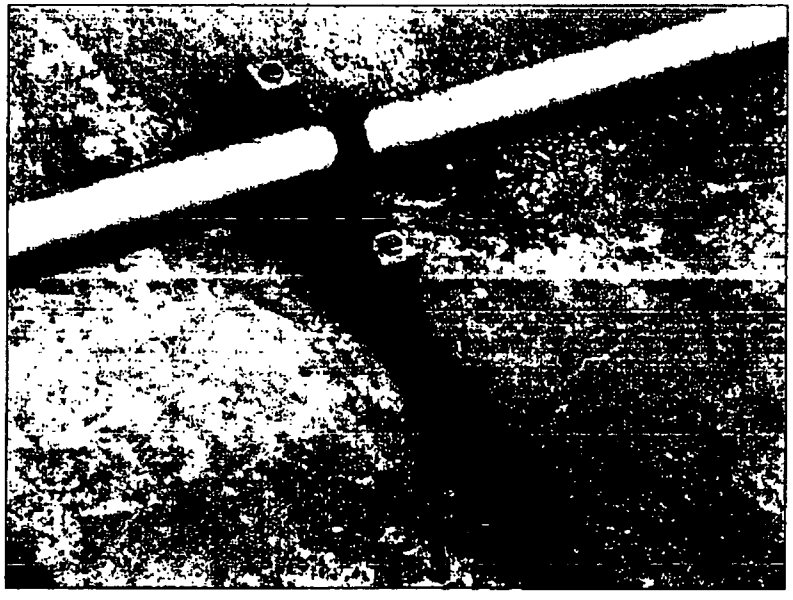
Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte csc	Date:	12-10-01

Comments: **Item #3 (Reference Page 1 - Condition 13): Intermittant areas of rust staining over dome area (reference pic #15).**

Item #4 (Reference Page 1 - Condition 22): Intermittant areas of checking < 0.040" over dome area (reference pic #17).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_306_pic15.JPG



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Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-306

Summary No.: RBCN-0016

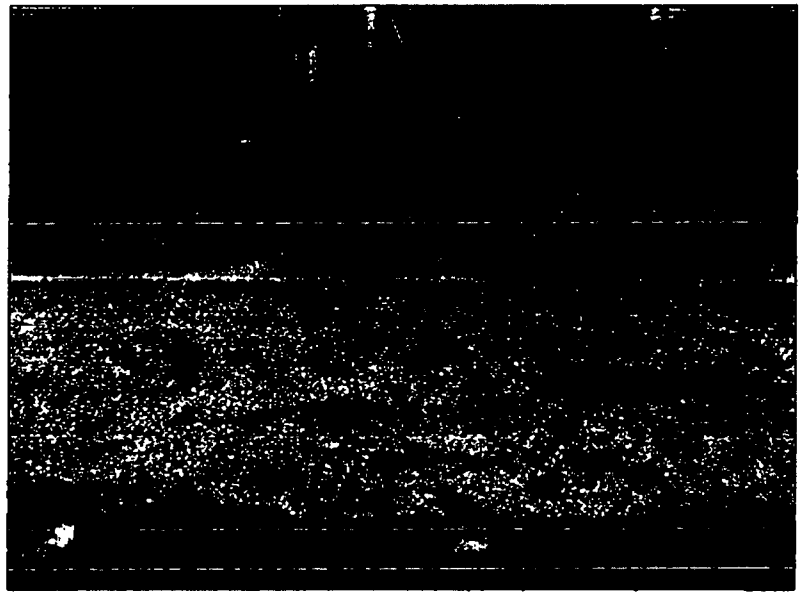
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: Item #5 (Reference Page 1 - Condition 22): Intermittant areas of deteriorating grout patches over dome area. (reference Pic#20)

Item #6 (Reference Page 1 - Condition 13): Intermittant areas of rust staining over dome area. (reference Pic#26)

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_306_pic20.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_306_pic26.JPG



Florida Power
A Progress Energy Company

Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0016	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-299
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: Dome EL. 267' 6"

Drawing No.: S-425-003 (Rev. 1) Description: RBCN-0016 (Buttress 1 to Buttress 2)

System ID: Concrete Containment

Component ID: RBCN-0016 (Buttress 1 to Buttress 2)

Limitations: None

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Machinist Scale, Resolution Card VT3-02

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: 525 / 600 Ft./CDS

Light Verification Times: 0800 / 0915 / 1430 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	X	_	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	X	_	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	_	_	X

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	9/6/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	J. O. Lese	11-4-01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/6/01	C. Colarte /	Carlos Colarte	12-4-01

Florida Power
A Progress Energy Company

Supplemental Report

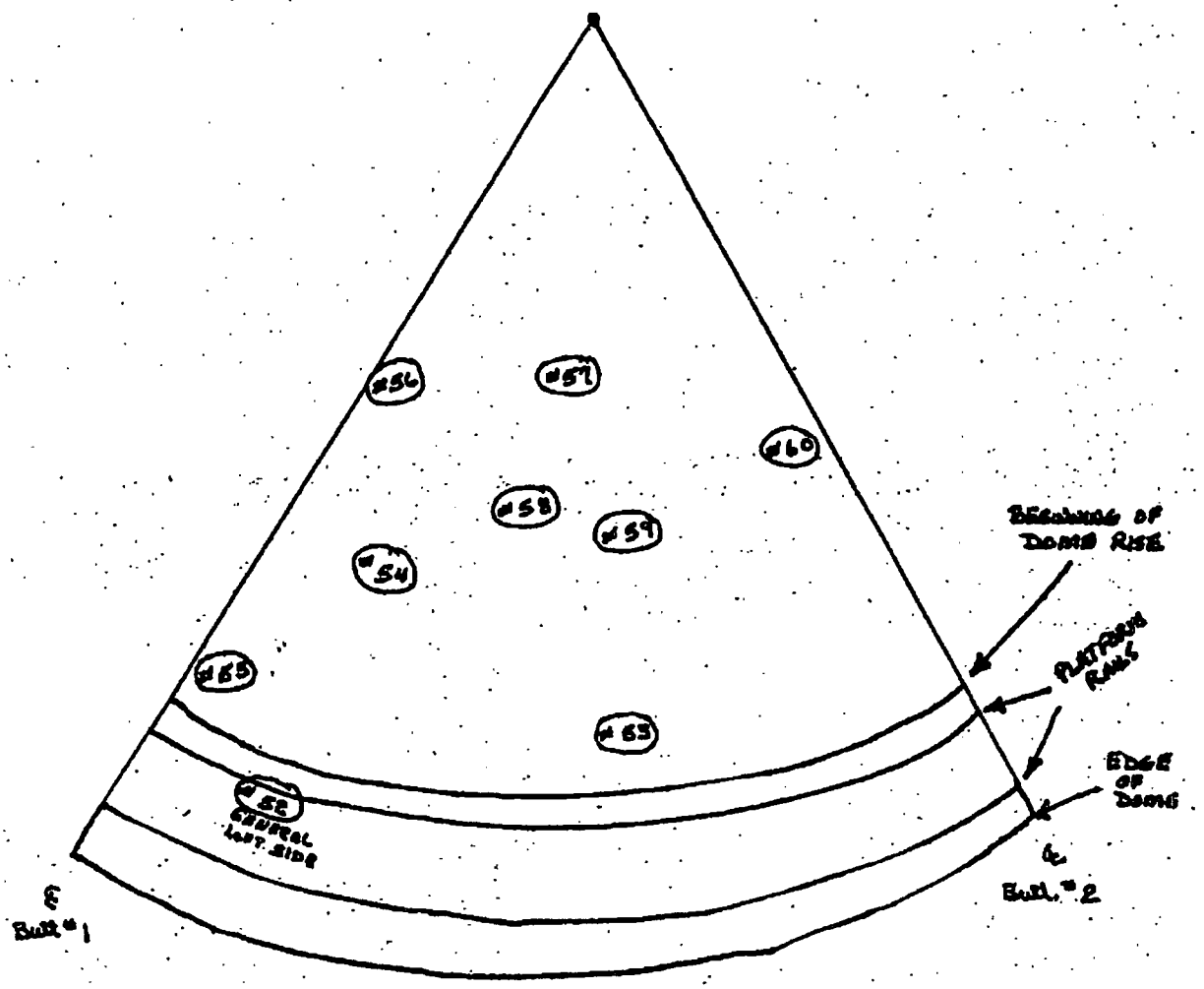
Report No.: VT-01-299

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Reference RBCN-0016
Approximate Photo Locations

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_299a.jpg



PICTURES 53 to 60

Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0016

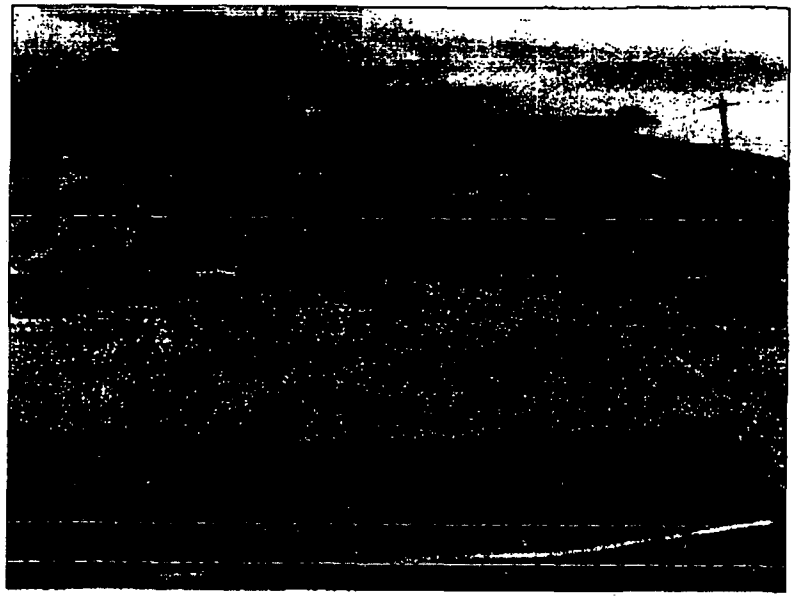
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Dome concrete surface between CL of Buttress #1 and CL of Buttress #2. See attached pages for referenced photo locations (approx.).

Item #1 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #52).

Item #2 (Reference Page 1 - Condition 1): Spalling > 8" to 3/4" depth with no exposed rebar (reference pic #53).

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_299_pic52.JPG



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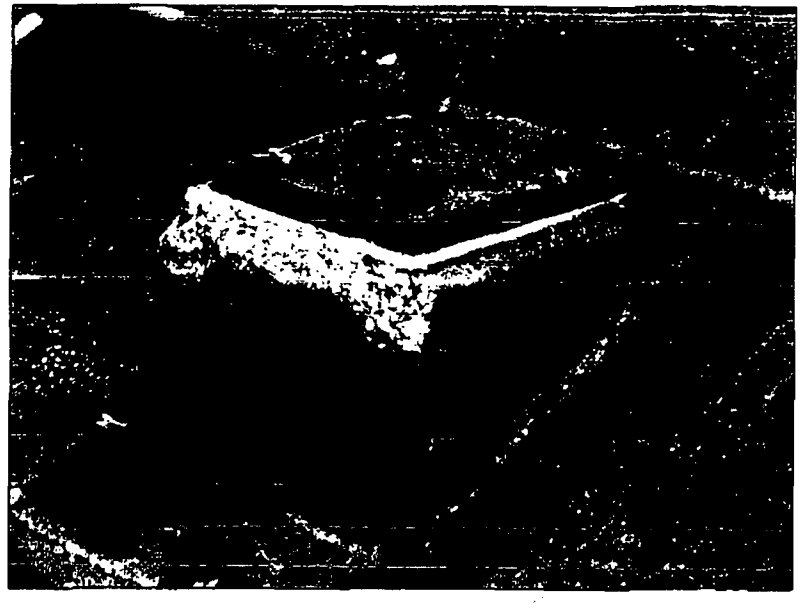

Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-299

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments: **Item #3 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #54).**

Item #4 (Reference Page 1 - Condition 22): Protruding rod with adjacent form nail/tie patches (reference pic #55).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_299_pic54.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_299_pic55.JPG

Florida Power
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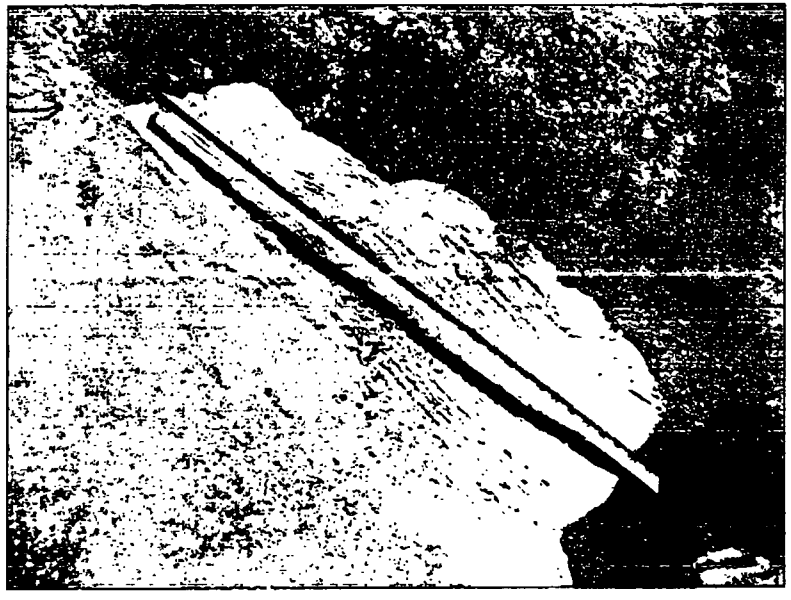
Supplemental Report

Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Item #5 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #56).

Item #6 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #57).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_299_pic56.JPG



L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_299_pic57.JPG

Florida Power
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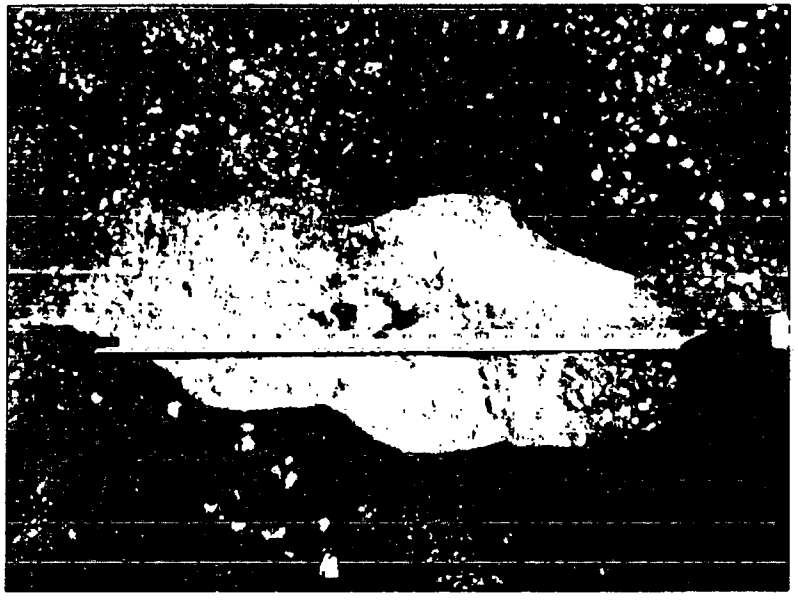
Supplemental Report

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JPB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #7 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #58, #59 & #60).**

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_299_pic58.JPG



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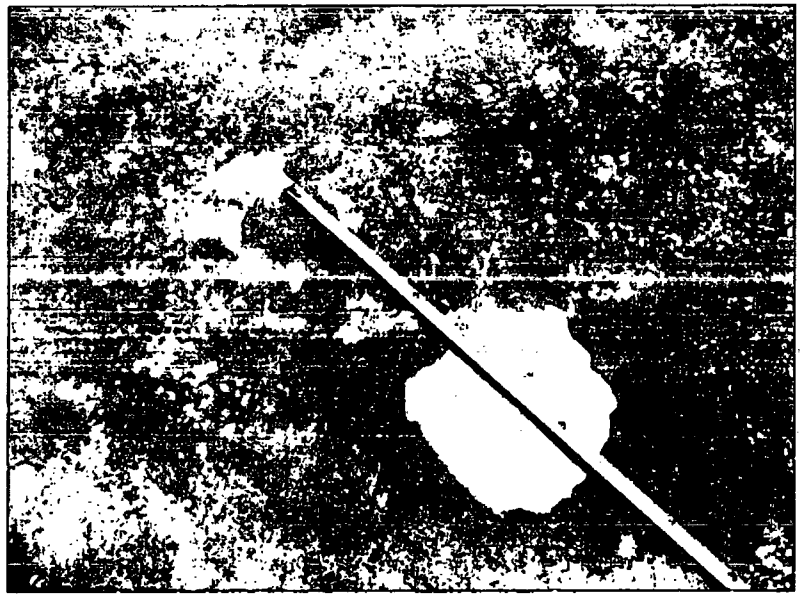


Florida Power
A Progress Energy Company

Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0016	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-303
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 4

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: Dome EL. 267' 6"

Drawing No.: S-425-003 (Rev. 1) Description: RBCN-0016 (Buttress 2 to Buttress 3)

System ID: Concrete Containment

Component ID: RBCN-0016 (Buttress 2 to Buttress 3)

Limitations: None

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Machinist Scale, Resolution Card VT3-02

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: 525 / 600 Ft./CDS

Light Verification Times: 0800 / 0915 / 1430 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	X	_	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	X	_	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	X	_	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	_	_	X

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	9/6/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A			Joe Lese, PE	J. C. Lese	11-13-01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/6/01	C. Colarte	Carlos Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

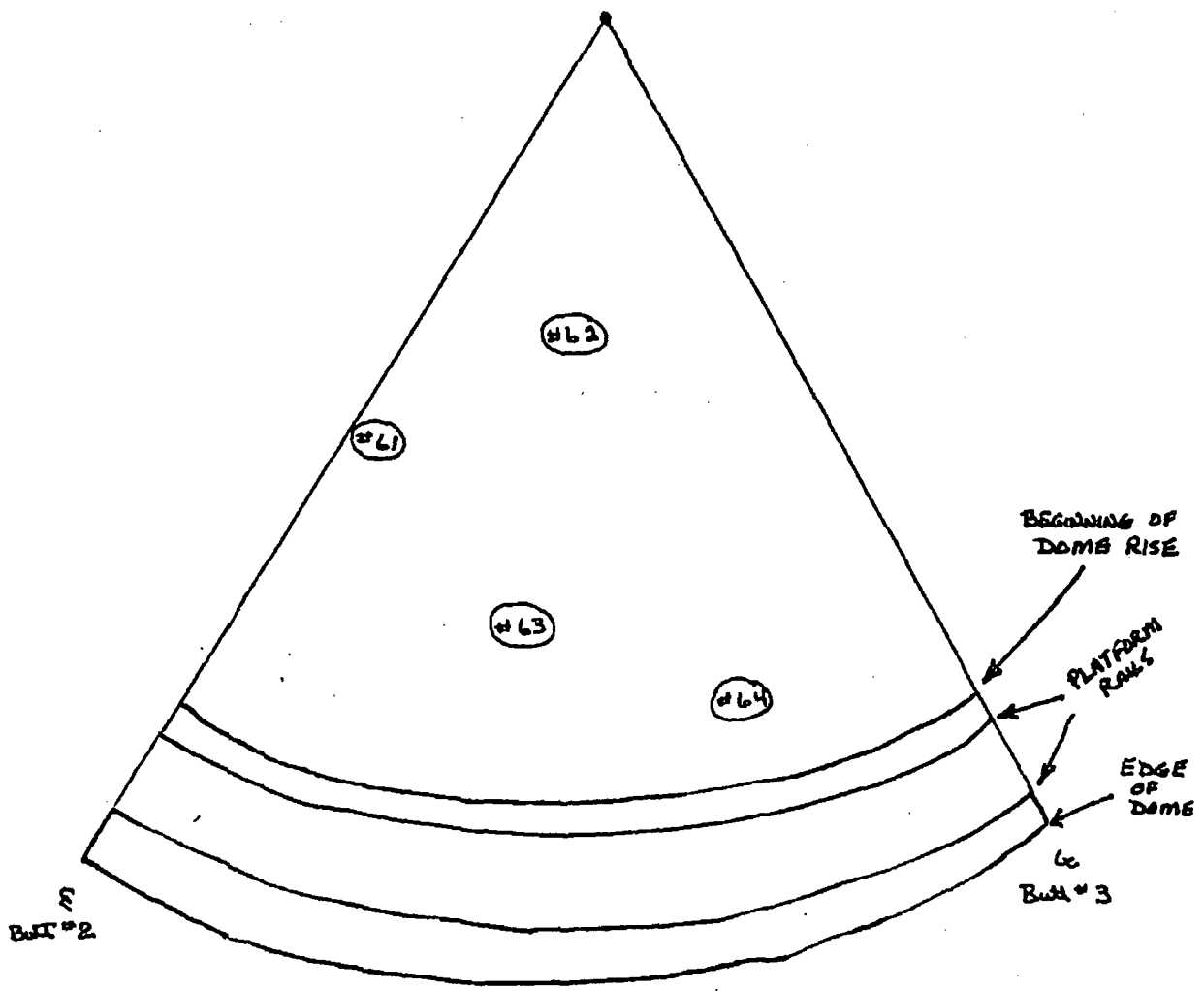
Report No.: VT-01-303

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-13-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Reference RBCN-0016
Approximate Photo Locations

Sketch or Photo: L:\Shared\Sidata\Data\RFO12_SUPPS\VT_01_303a.jpg



PICTURES 61 to 64

Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-303

Summary No.: RBCN-0016

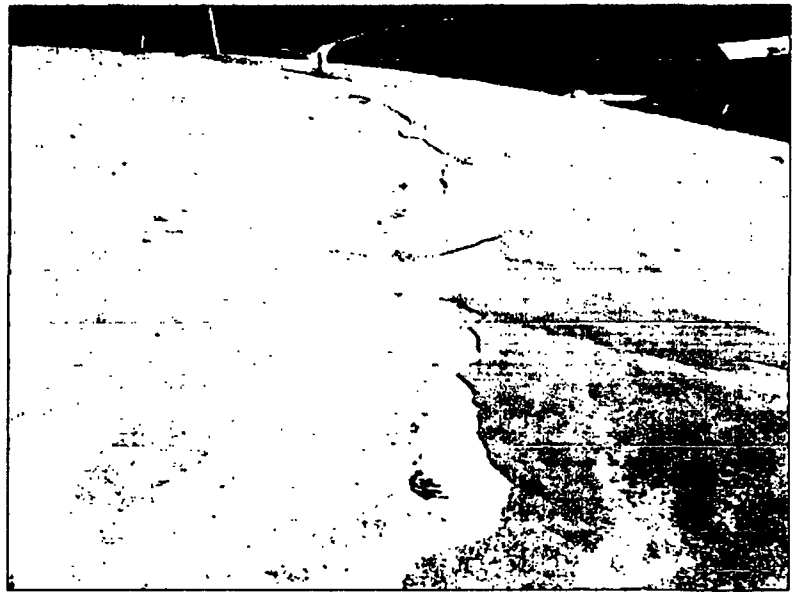
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11-13-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

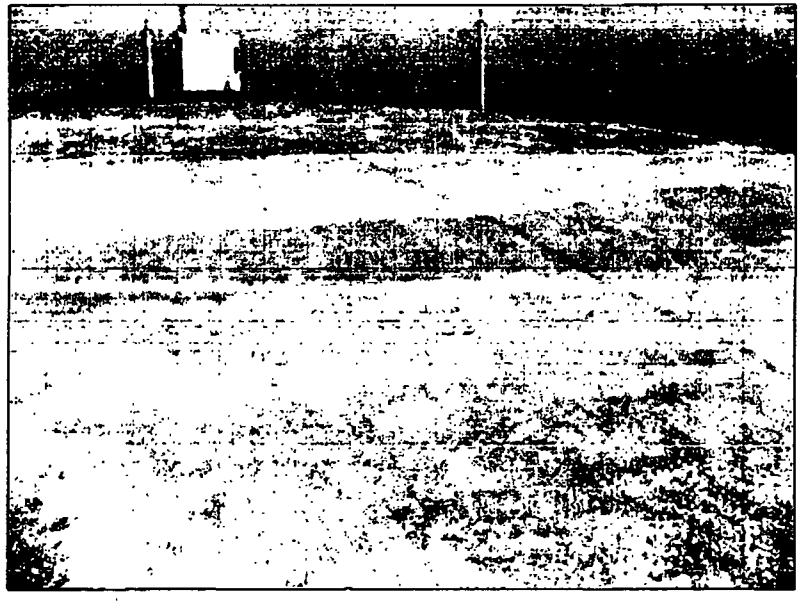
Comments: Dome concrete surface between CL of Buttress #2 and CL of Buttress #3. See attached pages for referenced photo locations (approx.).

Item #1 (Reference Page 1 - Condition 22): Deteriorating grout patch and general concrete aggregate composition (reference pic #61).

Item #2 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #62).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_303_pic61.JPG L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_303_pic62.JPG





Florida Power
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Supplemental Report

Report No.: VT-01-303

Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-13-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Dome concrete surface between CL of Buttress #2 and CL of Buttress #3.**

Item #3 (Reference Page 1 - Condition 22): Deteriorating grout patches and general concrete aggregate composition (reference pic #63).

Item #4 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #64).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_303_pic63.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_303_pic64.JPG

Florida Power
A Progress Energy Company

Visual Examination of IWL (VT-3C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0016 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-304

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 5

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: Dome EL. 267' 6"

Drawing No.: S-425-003 (Rev. 1) | Description: RBCN-0016 (Buttress 3 to Buttress 4)

System ID: Concrete Containment

Component ID: RBCN-0016 (Buttress 3 to Buttress 4)

Limitations: None

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ | Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found | Visual Equipment/Aids: Machinist Scale, Resolution Card VT3-02

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting | Serial No.: 0699 (TI-3375) | Illumination: 525 / 600 Ft./CDS

Light Verification Times: 0800 / 0915 / 1430 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	X	_	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	_	X	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	X	_	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	_	_	X

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ | Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II		9/6/01	Paul A. Wright / Level III /		11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /		11.14.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /		9/6/01	C. Colarte /		12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

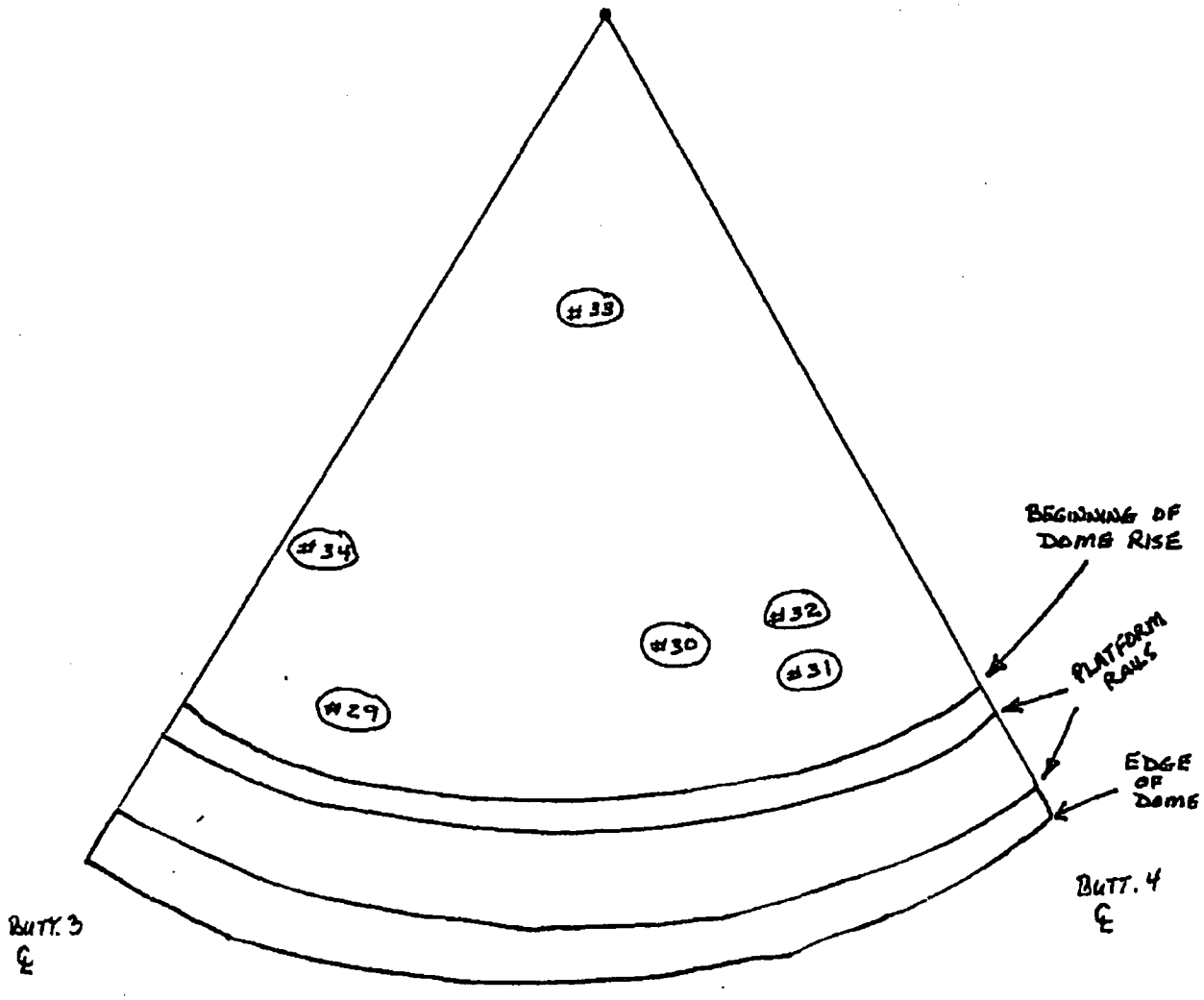
Report No.: VT-01-304

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments: Reference RBCN-0016
Approximate Photo Locations

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_304a.jpg



PICTURES 29 & 34

Florida Power
A Progress Energy Company

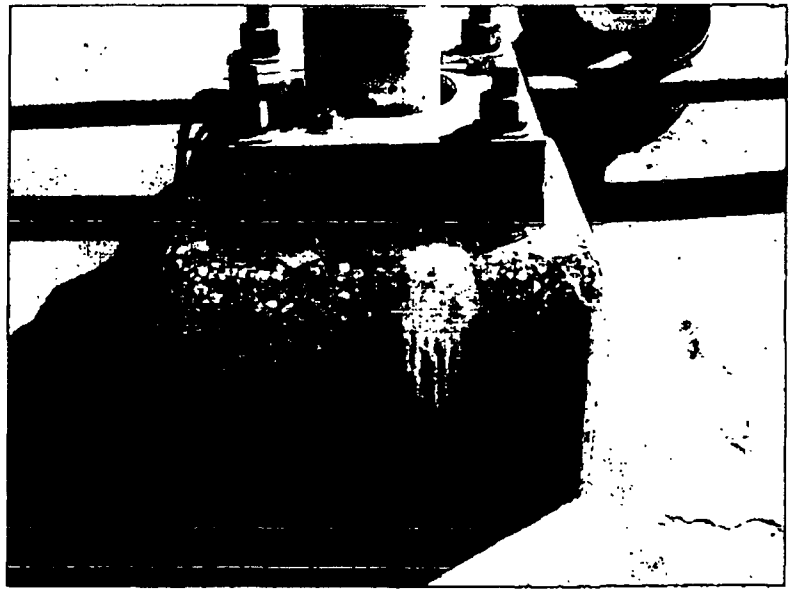
Supplemental Report

Report No.: VT-01-304

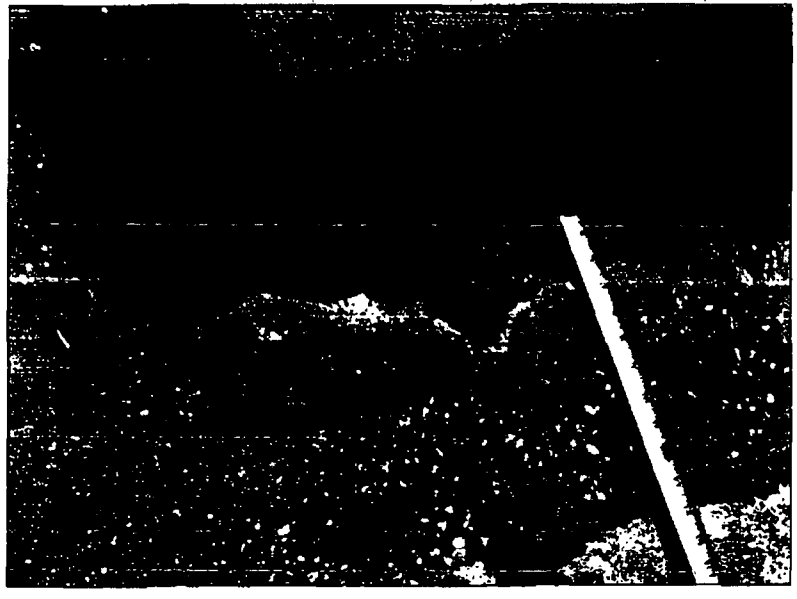
Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte CJC	Date:	12-10-01

Comments: Dome concrete surface between CL of Buttress #3 and CL of Buttress #4. See attached pages for referenced photo locations (approx.)
Item #1 (Reference Page 1 - Condition(s) 1 and 15): Efflorescence and corner spalling > 8" and 3/4" depth with no exposed rebar (reference pic #29).
Item #2 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #30).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_304_pic29.JPG



L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_304_pic30.JPG



Florida Power
A Progress Energy Company

Supplemental Report

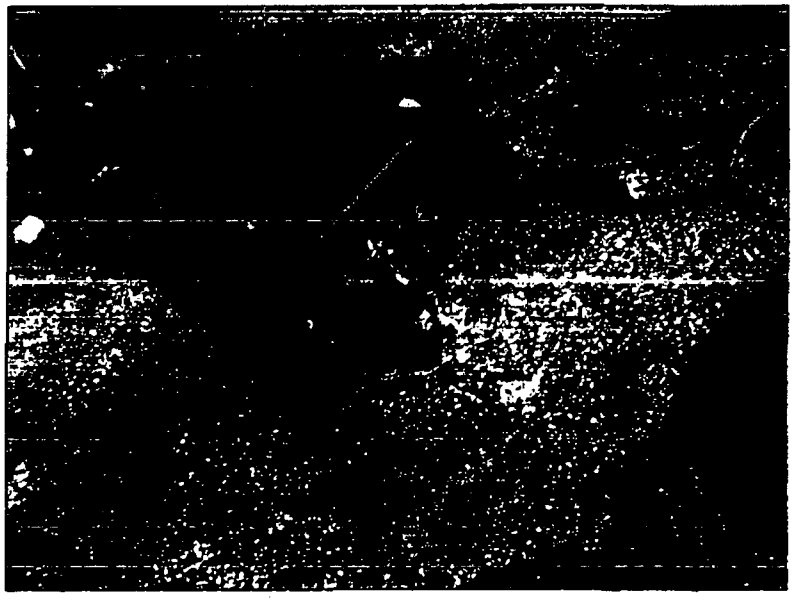
Report No.: VT-01-304

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Dome concrete surface between CL of Buttress #3 and CL of Buttress #4.
Item #3 (Reference Page 1 - Condition 22): Exposed/protruding conduit with attached box (reference pic #31).
Item #4 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #32).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_304_pic31.JPG



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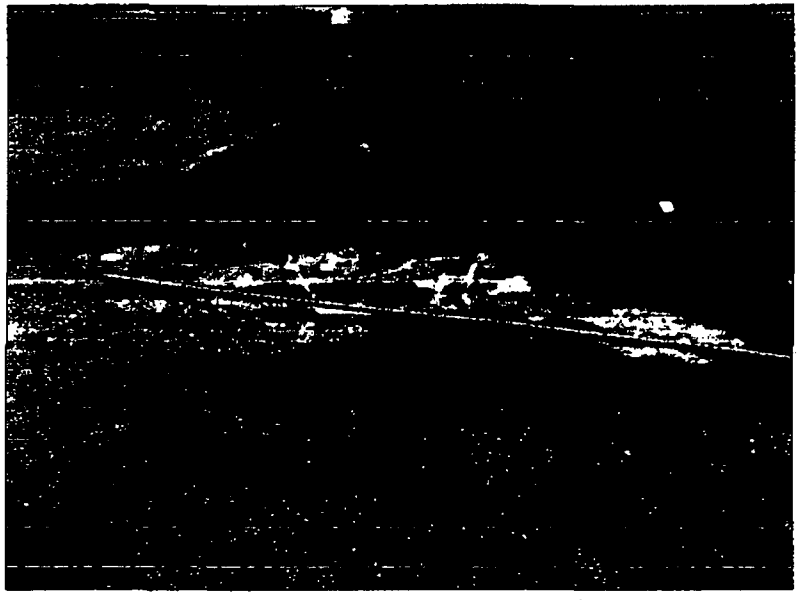


Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-304

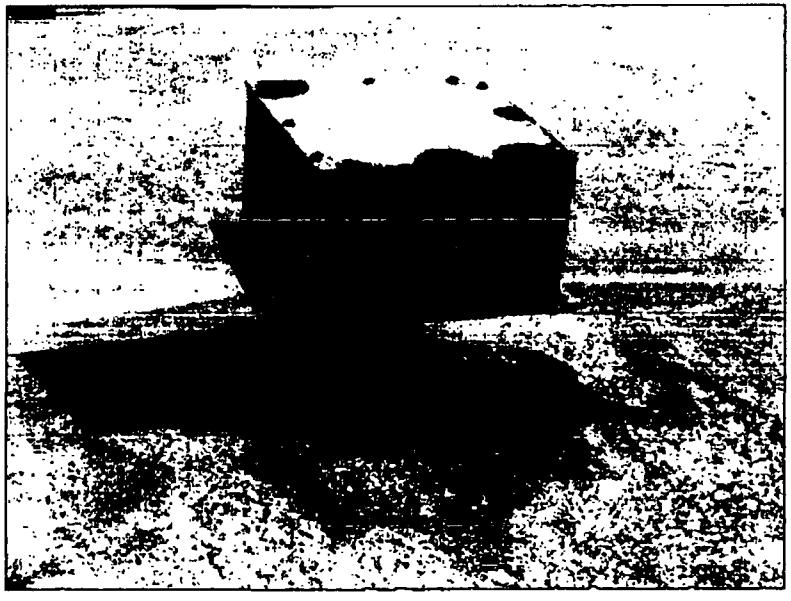
Page: 5 of 5

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Dome concrete surface between CL of Buttress #3 and CL of Buttress #4.
Item #5 (Reference Page 1 - Condition 22): Exposed/protruding conduit with attached box (reference pic #33).
Item #6 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #34).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_304_pic33.JPG



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_304_pic34.JPG

Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0016	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-302
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: Dome EL. 267' 6"

Drawing No.: S-425-003 (Rev. 1) Description: RBCN-0016 (Buttress 4 to Buttress 5)

System ID: Concrete Containment

Component ID: RBCN-0016 (Buttress 4 to Buttress 5)

Limitations: None

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Machinist Scale, Resolution Card VT3-02

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: 525 / 600 Ft./CDS

Light Verification Times: 0800 / 0915 / 1430 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	_	X	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	_	_	_	X
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	_	X	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	_	_	_	X	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	X	_	_

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D. Brown	9/6/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A			Joe Lese, PE	Joe A. Lese	11-14-01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A	Kevin K. Fuqua	9/6/01	C. Colarte	Carlos A. Colarte	12/10/01

Florida Power
A Progress Energy Company

Supplemental Report

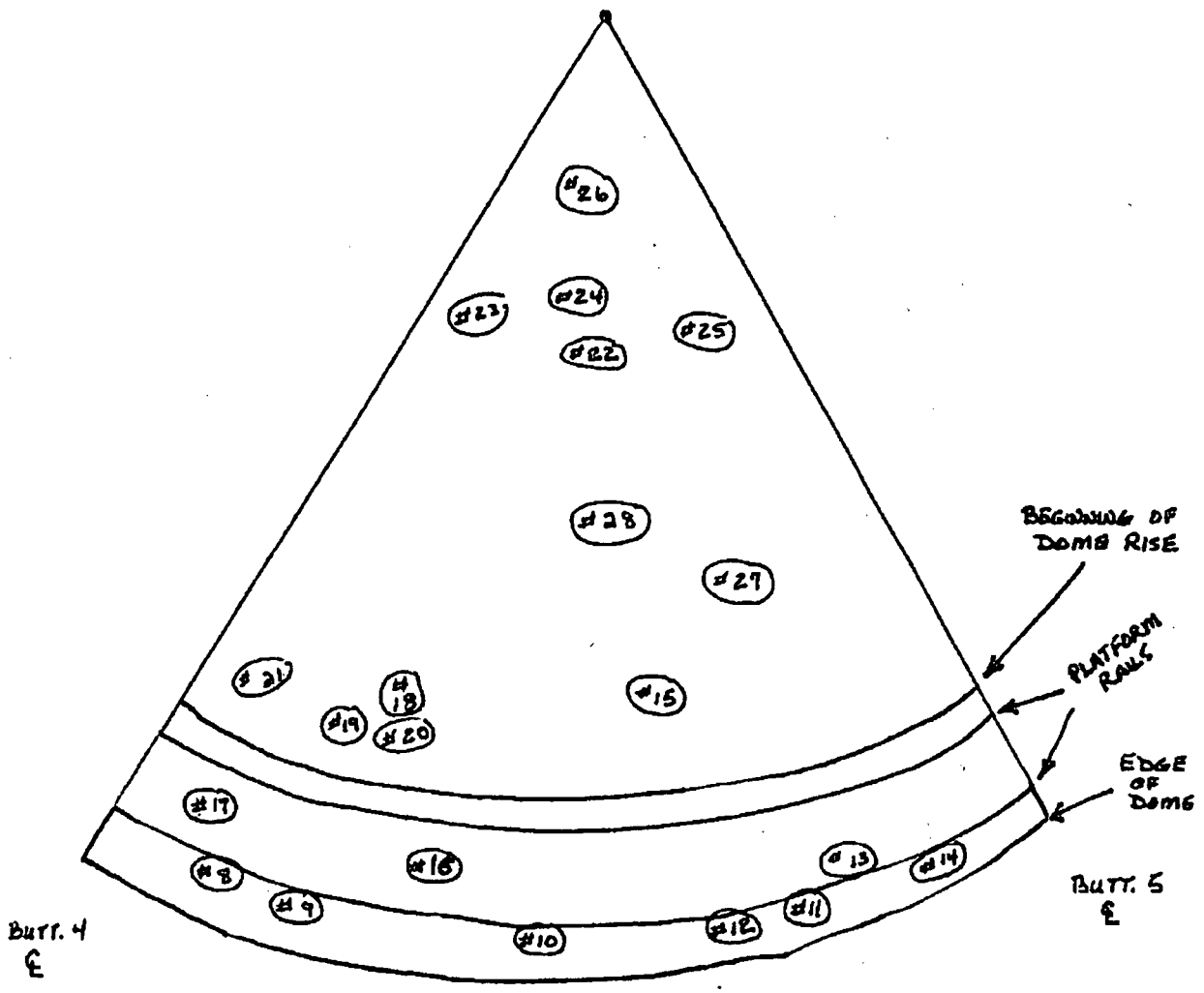
Report No.: VT-01-302

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Reference RBCN-0016
Approximate Photo Locations

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_302a.jpg



PICTURES 8 to 28

Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments:

Dome concrete surface between CL of Buttress #4 and CL of Buttress #5. See attached pages for photo locations (approx.).

Item #1 (Reference Page 1 - Condition 1): Spall < 8" diameter and 3/4" depth with adjacent crack < .040" (reference pic #8).

Item #2 (Reference Page 1 - Condition 15): Efflorescense (reference pic #9).

Item #3 (Reference Page 1 - Condition 22): Exposed form tie ends, form tie hole patches (reference pic #10).

Item #4 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth with no exposed rebar (reference pic #11).

Item #5 (Reference Page 1 - Condition 22): Bugholes < 2" and 3/4" depth (reference pic #12).

Item #6 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth with no exposed rebar (reference pic #13).

Item #7 (Reference Page 1 - Condition 22): Attached form board with form nails (reference pic #14).

Item #8 (Reference Page 1 - Condition 9): Corrosion staining from conduit support (reference pic #15).

Item #9 (Reference Page 1 - Condition 7): Popout @ form tie < 2" diameter and 3/4" depth (reference pic #16).

Item #10 (Reference Page 1 - Condition 2): Checking cracks (TYP) < .040" (reference pic #17).

Item #11 (Reference Page 1 - Condition 22): Ground conductor loose w/ adj. spall < 8" and 3/4" depth (reference pic #18).

Item #12 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth (coated with no exposed rebar with adjacent embedded electrical boxes (reference pic #19).

Item #13 (Reference Page 1 - Condition 22): Deteriorating grout patch (TYP) (reference pic #20).

Item #14 (Reference Page 1 - Condition 22): Exposed form tie end and form nail with rust and staining with adjacent corrosion staining from electrical box support (reference pic #21).

Item #15 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #22).

Item #16 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #23).

Item #17 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #24).

Item #18 (Reference Page 1 - Condition 2): Cracks > .040" in grout patch (reference pic #25).

Item #19 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #26).

Item #20 (Reference Page 1 - Condition 1): Exposed form tie ends, one with spall > 3/4" depth (reference Pic #27).

Item #21 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #28).

Florida Power
A Progress Energy Company

Supplemental Report

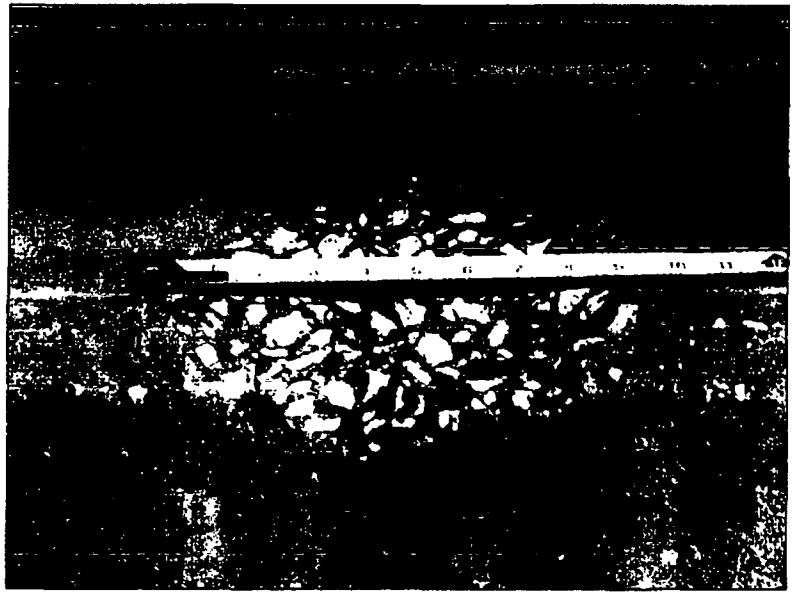
Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-20-01

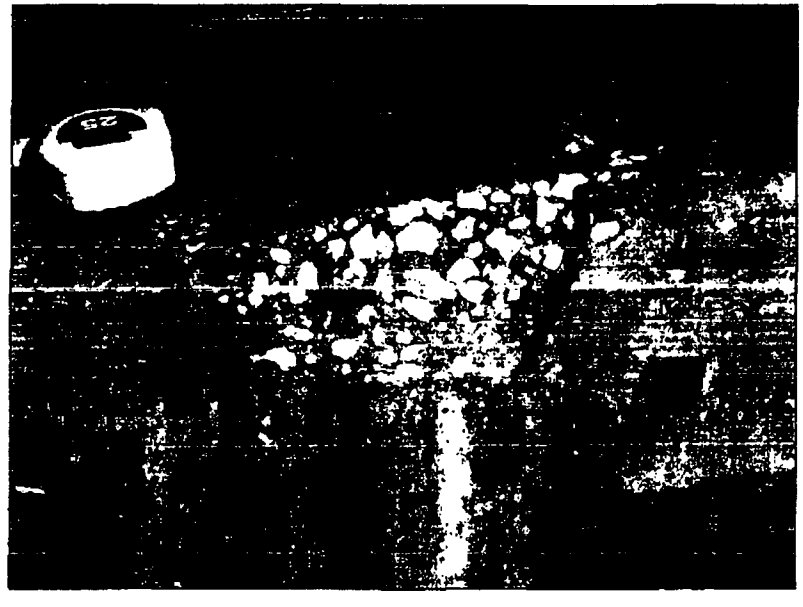
Comments: **Dome concrete surface between CL of Buttress #4 and CL of Buttress #5.**

Item #4 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth with no exposed rebar (reference pic #11).

Item #6 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth with no exposed rebar (reference pic #13).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_302_pic11.JPG L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_302_pic13.JPG





Florida Power
A Progress Energy Company

Supplemental Report

Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Dome concrete surface between CL of Buttress #4 and CL of Buttress #5.
Item #12 (Reference Page 1 - Condition 1): Spall > 8" and 3/4" depth (coated with no exposed rebar with adjacent embedded electrical boxes (reference pic #19).
Item #13 (Reference Page 1 - Condition 22): Deteriorating grout patch (TYP) (reference pic #20).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_302_pic19.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_302_pic20.JPG

Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0016

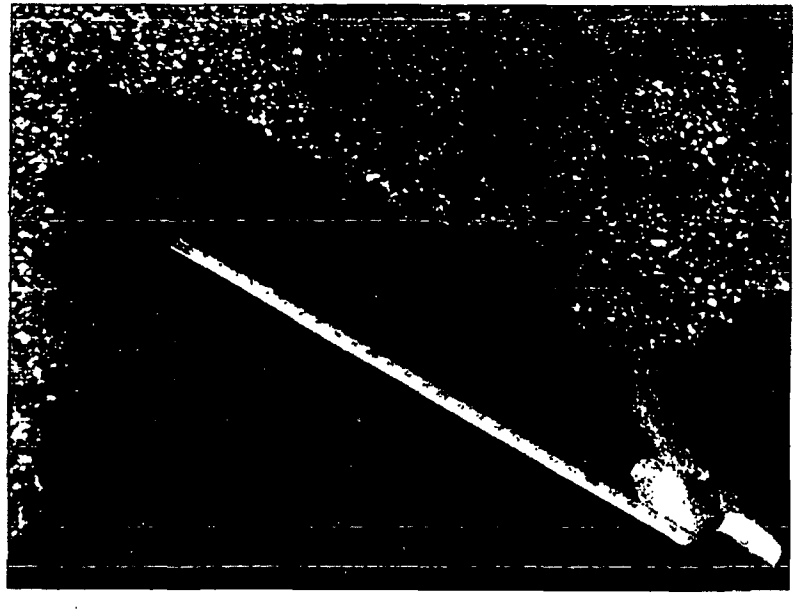
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Dome concrete surface between CL of Buttress #4 and CL of Buttress #5.**

Item #18 (Reference Page 1 - Condition 2): Cracks > .040" in grout patch (reference pic #25).

Item #20 (Reference Page 1 - Condition 1): Exposed form tie ends, one with spall > 3/4" depth (reference Pic #27).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_302_pic25.JPG



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Florida Power
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Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0016	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-301
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: Dome EL. 267' 6"

Drawing No.: S-425-003 (Rev. 1) Description: RBCN-0016 (Buttress 5 to Buttress 6)

System ID: Concrete Containment

Component ID: RBCN-0016 (Buttress 5 to Buttress 6)

Limitations: None

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Machinist Scale, Resolution Card VT3-02

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: 525 / 600 Ft./CDS

Light Verification Times: 0800 / 0915 / 1430 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	X	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	X	_	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	X	_	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	_	_	X

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level II	Signature	Date	Reviewer		Signature	Date
Brown, Jerry D.		Jerry Brown	9/6/01	Paul A. Wright / Level III /		Paul A. Wright	11/12/01
Examiner	Level N/A	Signature	Date	Site Review		Signature	Date
N/A	/			Joe Lese, PE	/	Joe Lese	11-14-01
Other	Level N/A	Signature	Date	ANII Review		Signature	Date
Fuqua, Kevin K.	/	Kevin K. Fuqua	9/6/01	C. Colarte	/	Carlos Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

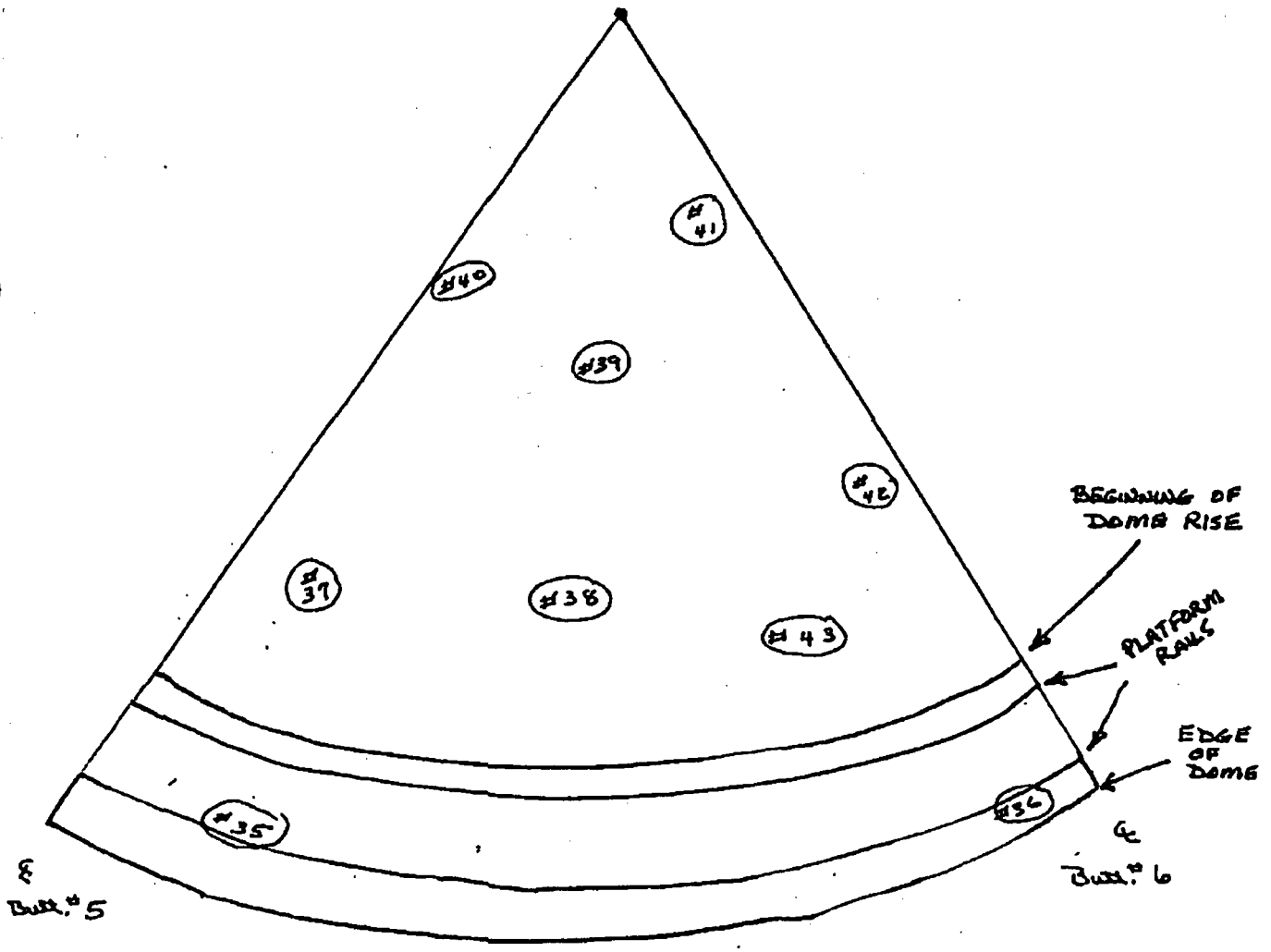
Report No.: VT-01-301

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Reference RBCN-0016
Approximate Photo Locations

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_301a.jpg



PICTURES 35 TO 43

Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

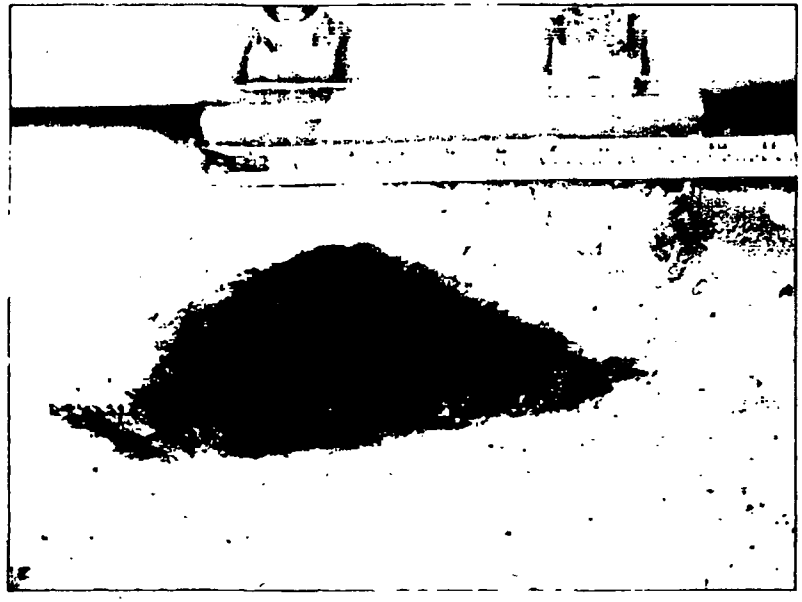
Comments: Dome concrete surface between CL of Buttress #5 and CL of Buttress #6. See attached pages for referenced photo locations (approx.).

Item #1 (Reference Page 1 - Condition 1): Spall > 8" diameter and 3/4" depth with no exposed rebar (reference pic #35).

Item #2 (Reference Page 1 - Condition 1): Spall > 3/4" depth with no exposed rebar (reference pic #36).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_301_pic35.JPG

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_301_pic36.JPG



Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0016

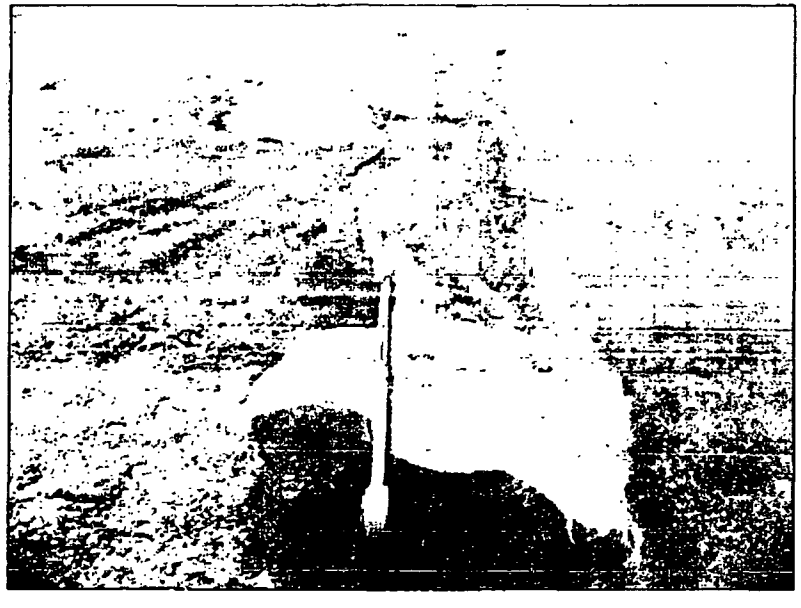
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12/10-01

Comments: **Dome concrete surface between CL of Buttress #5 and CL of Buttress #6.**

Item #3 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #37).

Item #4 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #38).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_301_pic37.JPG L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_301_pic38.JPG



Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments: **Dome concrete surface between CL of Buttress #5 and CL of Buttress #6.**

Item #5 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #39).

Item #6 (Reference Page 1 - Condition 22): Deteriorating grout patches (reference pic #40).

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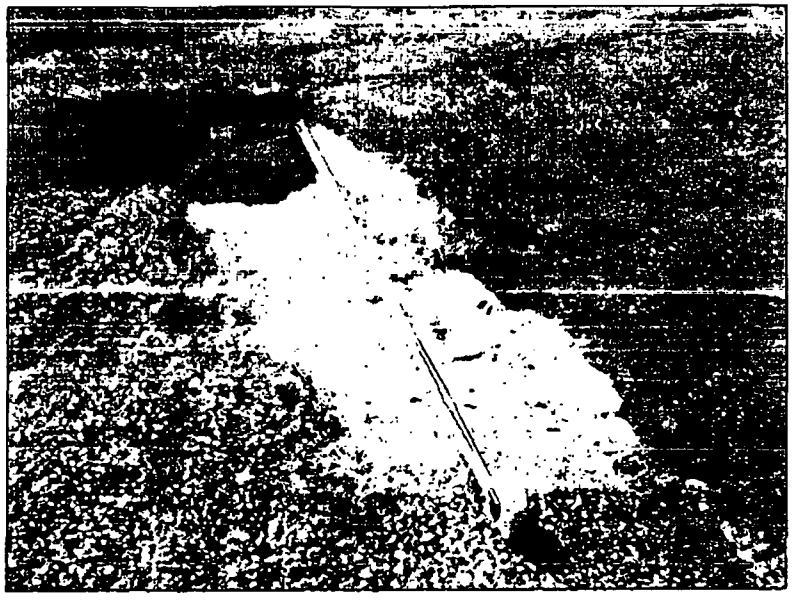

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Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-301

Page: 6 of 6

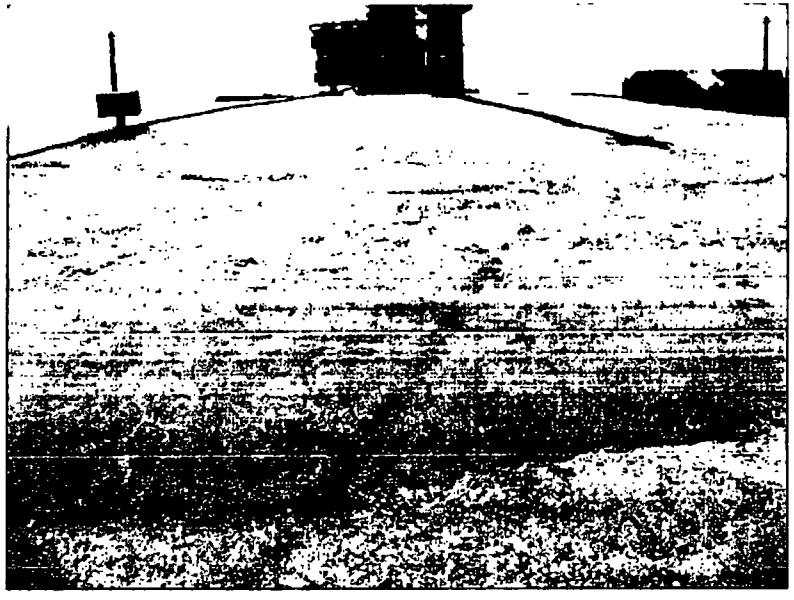
Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Dome concrete surface between CL of Buttress #5 and CL of Buttress #6.

Item #7 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #41, #42 & #43).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_301_pic41.JPG



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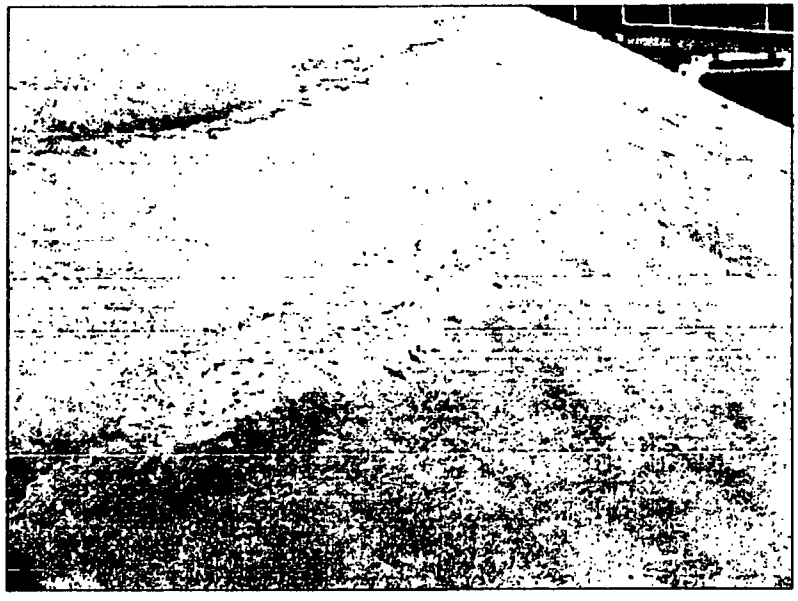


Florida Power
A Progress Energy Company

Visual Examination of IWL (VT-3C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0016	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-300
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: Dome EL. 267' 6"

Drawing No.: S-425-003 (Rev. 1) Description: RBCN-0016 (Buttress 6 to Buttress 1)

System ID: Concrete Containment

Component ID: RBCN-0016 (Buttress 6 to Buttress 1)

Limitations: None

General ○ VT-1C ○ VT-3C ◉ VT-1 ○ VT-3 ○ Resolution: 1/10" (0.105") Graduation

Surface Condition: As Found Visual Equipment/Aids: Machinist Scale, Resolution Card VT3-02

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: 525 / 600 Ft./CDS

Light Verification Times: 0800 / 0915 / 1430 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	X	_	_	_	12) Reinforcing Bar Corrosion	X	_	_	_
2) Cracking	_	X	_	_	13) Rust Bleeding	X	_	_	_
3) Delaminations	X	_	_	_	14) Tendon Surface Cracking	X	_	_	_
4) Honeycomb	X	_	_	_	15) Efflorescense	X	_	_	_
5) Water In Leakage	X	_	_	_	16) Cosmetic Patch Bond	X	_	_	_
6) Chemical Leaching	X	_	_	_	17) Voids	X	_	_	_
7) Popouts	_	X	_	_	18) Erosion	X	_	_	_
8) Deflection	X	_	_	_	19) Pitting	X	_	_	_
9) Staining	X	_	_	_	20) Abrasion	X	_	_	_
10) Discoloration	X	_	_	_	21) Segregation	X	_	_	_
11) Vibration Damage	X	_	_	_	22) Other	_	_	_	X

Comments:
Recording criteria per applicable procedure and memo from R.E. dated September 4, 2001.

Results: Sat ☑ Unsat ☐ Examination Performed Online 2001

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	9/6/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	J.O. Lese	11.4.01
Other	Level	Signature	Date	ANII Review	Signature	Date
Fuqua, Kevin K.	N/A /	Kevin K. Fuqua	9/6/01	C. Colarte /	Carlos Colarte	11-4-01

Florida Power
A Progress Energy Company

Supplemental Report

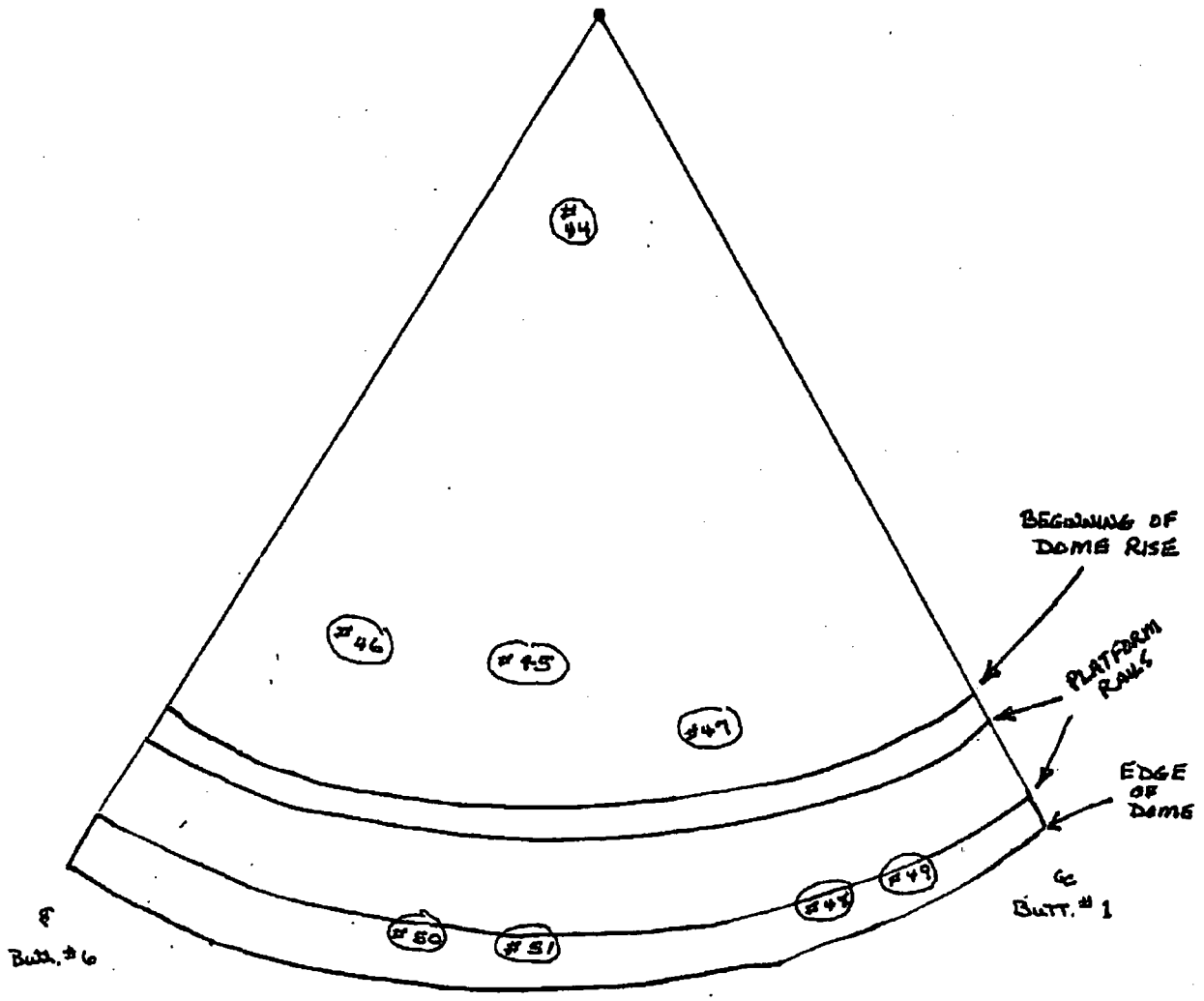
Report No.: VT-01-300

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-4-01

Comments: **Reference RBCN-0016**
Approximate Photo Locations

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_300a.jpg



Pictures 44 to 51

Florida Power
A Progress Energy Company

Supplemental Report

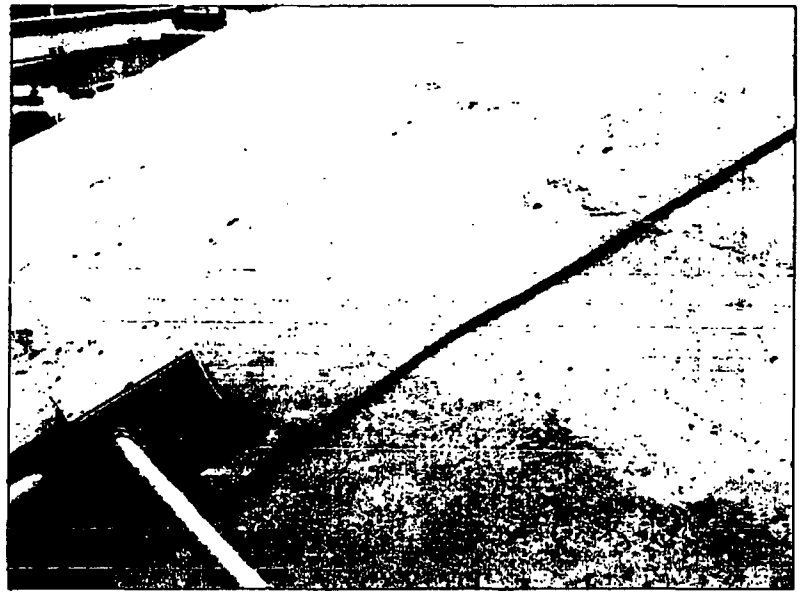
Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Dome concrete surface between CL of Buttress #6 and CL of Buttress #1. See attached pages for referenced photo locations (approx.).**

Item #1 (Reference Page 1 - Condition 22): Deteriorating grout patch (reference pic #44).

Item #2 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #45).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_300_pic44.JPG L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_300_pic45.JPG



Florida Power
A Progress Energy Company

Supplemental Report

Summary No.: RBCN-0016

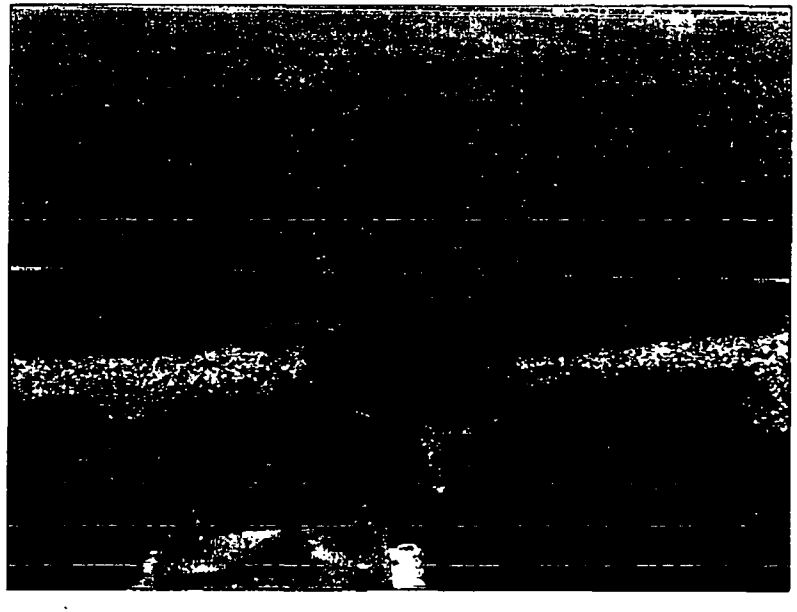
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-12-01

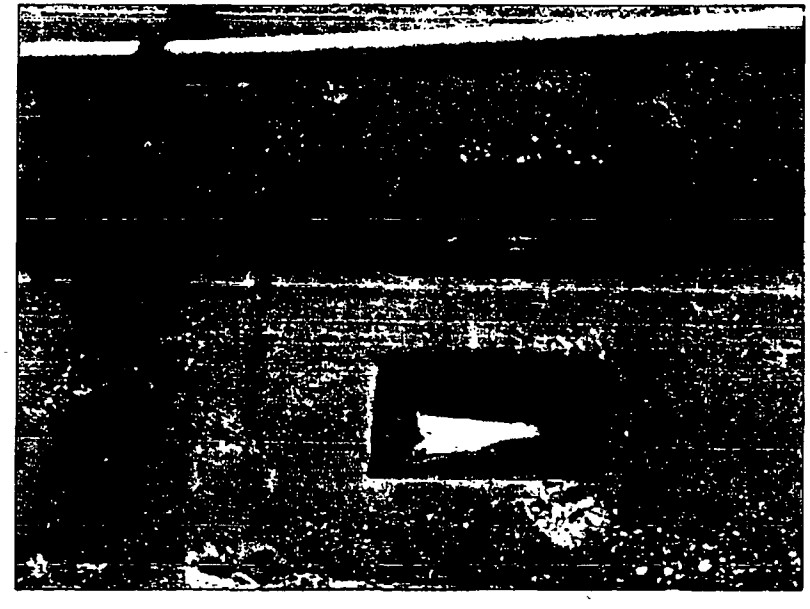
Comments: **Dome concrete surface between CL of Buttress #6 and CL of Buttress #1.**

Item #3 (Reference Page 1 - Condition 22): Form nail patches (reference pic #46).

Item #4 (Reference Page 1 - Condition 7): Popout > 2" diameter with adjacent embedded elect. boxes (reference pic #47).

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_300_pic46.JPG L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_300_pic47.JPG





Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-300

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11-14-01
Other:	Fuqua, Kevin K. KKF	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Dome concrete surface between CL of Buttress #6 and CL of Buttress #1.**

Item #5 (Reference Page 1 - Condition 2): Crack > .040" adjacent to S1-2 box (reference pic #48).

Item #6 (Reference Page 1 - Condition 2): Crack > .040" adjacent to S1-2 box (close-up) (reference pic #49).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_300_pic48.JPG L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_300_pic49.JPG

Florida Power
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Supplemental Report

Report No.: VT-01-300

Page: 6 of 6

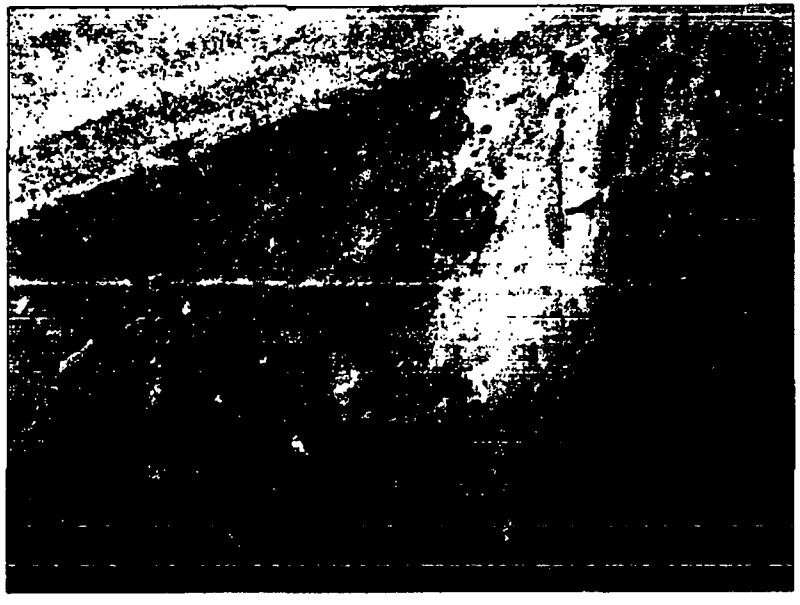
Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11.14.01
Other:	Fuqua, Kevin K.	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Dome concrete surface between CL of Buttress #6 and CL of Buttress #1.**

Item #7 (Reference Page 1 - Condition22): Bugholes < 2" diameter and 3/4" depth (reference pic (s) #50 and #51).

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_300_pic50.JPG

L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_300_pic51.JPG



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0003 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-315

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 6

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: Tendon Gallery - Ceiling

Drawing No.: S-425-001 (Rev. 1) | Description: RBCN-0003 Direct Inspection

System ID: Concrete Containment

Component ID: RBCN-0003 Items #1, #2, and #3

Limitations: Lighting

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found | Visual Equipment/Aids: 1/10" and 1/32" Scale, Flashlight, Tape *

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix | Serial No.: TI-2856 / TI-2858 | Illumination: > 200 Ft./CDS

Light Verification Times: 0800 / 1600 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas ___ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling				X	12) Reinforcing Bar Corrosion			X	
2) Cracking			X		13) Rust Bleeding			X	
3) Delaminations			X		14) Tendon Surface Cracking			X	
4) Honeycomb			X		15) Efflorescense				X
5) Water In Leakage			X		16) Cosmetic Patch Bond			X	
6) Chemical Leaching				X	17) Voids			X	
7) Popouts			X		18) Erosion			X	
8) Deflection			X		19) Pitting			X	
9) Staining			X		20) Abrasion			X	
10) Discoloration			X		21) Segregation			X	
11) Vibration Damage			X		22) Other				X

Comments:
* Large 6 volt spotlight and hand flashlights were used, along with building elect. lights.

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D Brown	11/08/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	J. A. Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A	T. Rand Wilson	11/08/01	C. Colarte / ANIC /	Carlos A. Colarte	12-1-01

Florida Power
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Supplemental Report

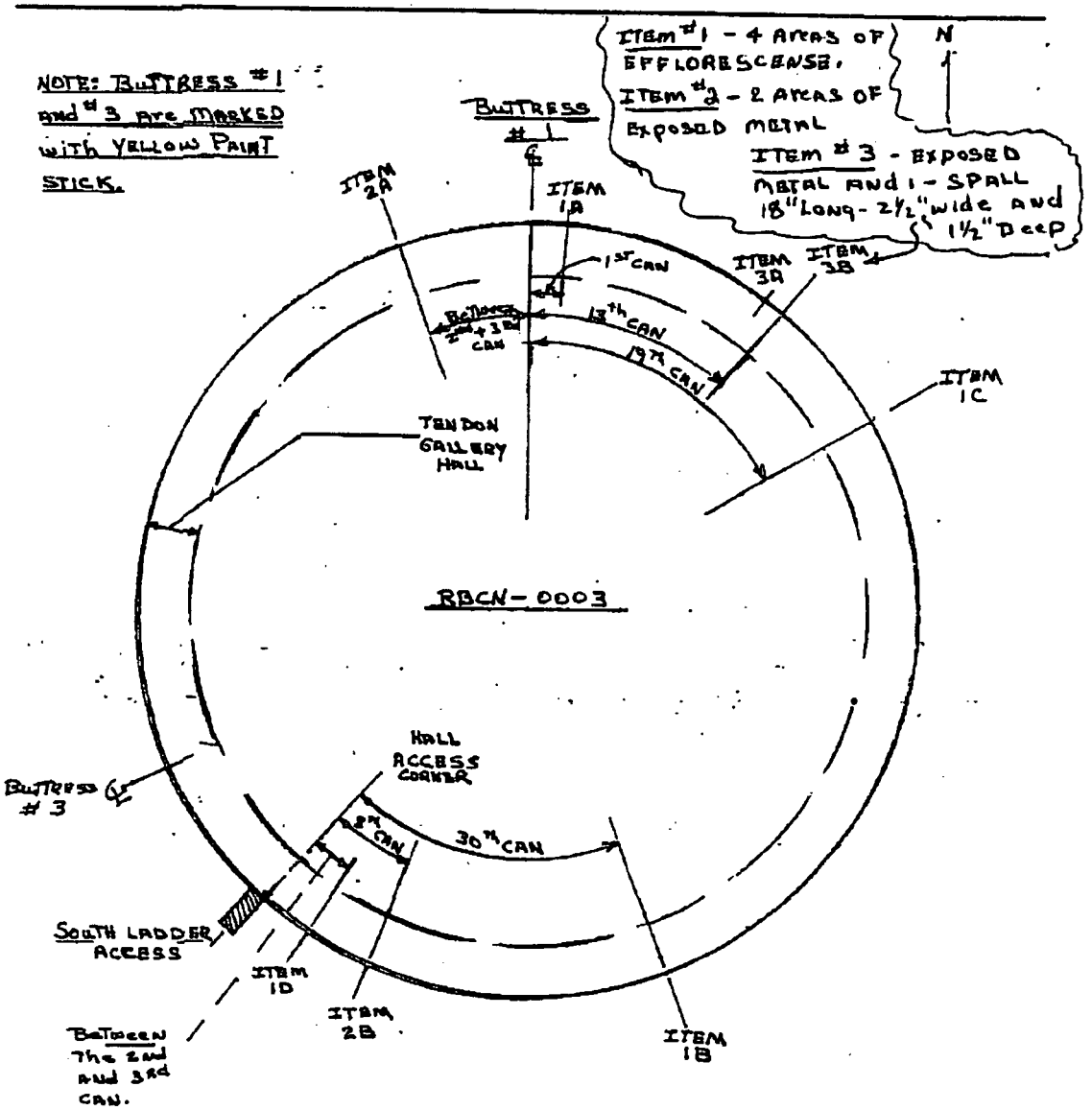
Report No.: VT-01-315

Summary No.: RBCN-0003

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CSC	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_315a.jpg



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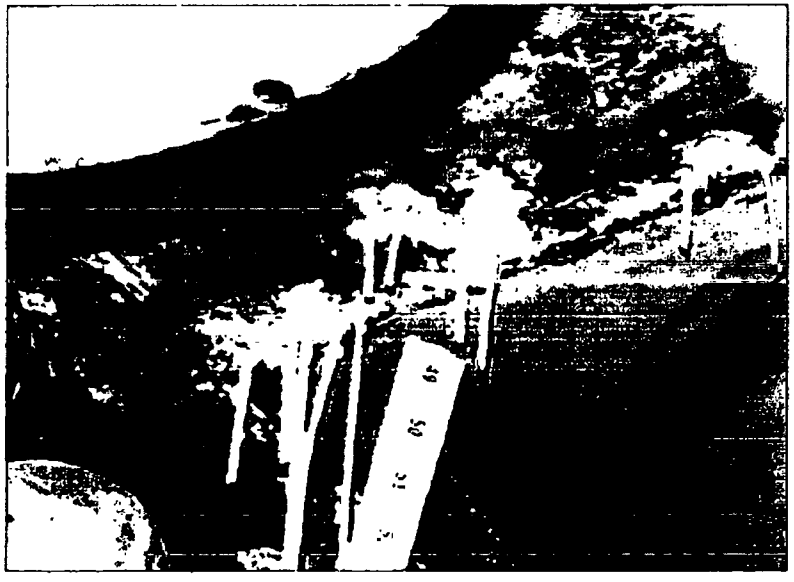
Supplemental Report

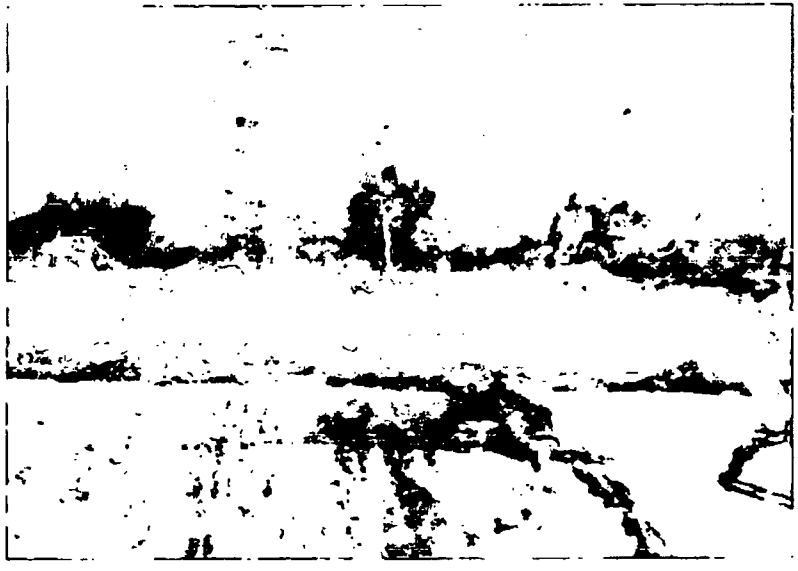
Summary No.:	RBCN-0003						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11/14/01
Other:	Wilson, T. Rand TW	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-6-01

Comments: **Item #1 (Reference Page 1 - Conditions 6 and 15): Four (4) areas of efflorescense (reference pic(s) #item1a, #item1ba, and #item1cb following page).**

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_315_item1a.jpg



L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_315_item1ba.jpg



Florida Power
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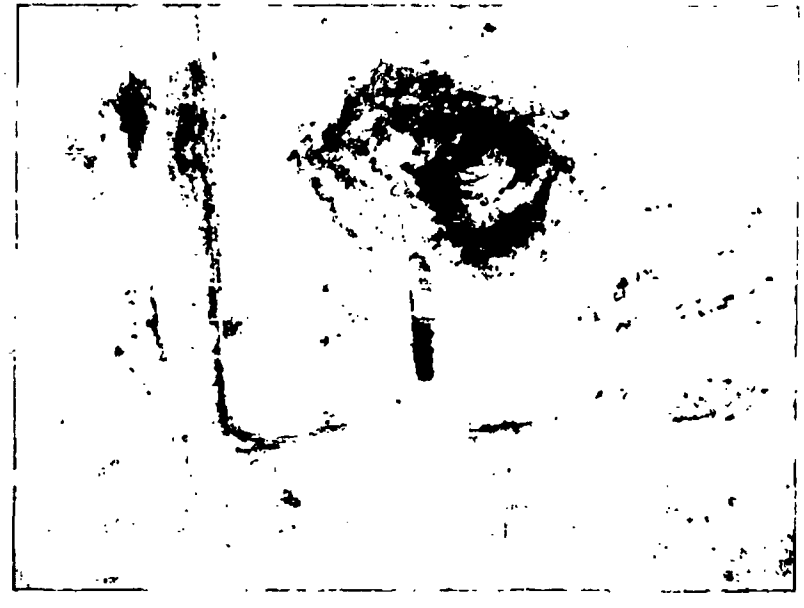
Supplemental Report

Summary No.: RBCN-0003

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JDL	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12/10/01

Comments: Item #1 (Reference Page 1 - Conditions 6 and 15): Four (4) areas of efflorescense (reference pic(s) #item1a previous page, #item1ba previous page, and #item1cb).
Item #3 (Reference Page 1 - Condition 1): Exposed metal and one (1) spall 18" long, 2 1/2" wide, and 1 1/2" deep (reference pic(s) #item3ba, #item3bb following page, and #item3bc following page).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_315_item1cb.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_315_item3ba.jpg

Florida Power
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Supplemental Report

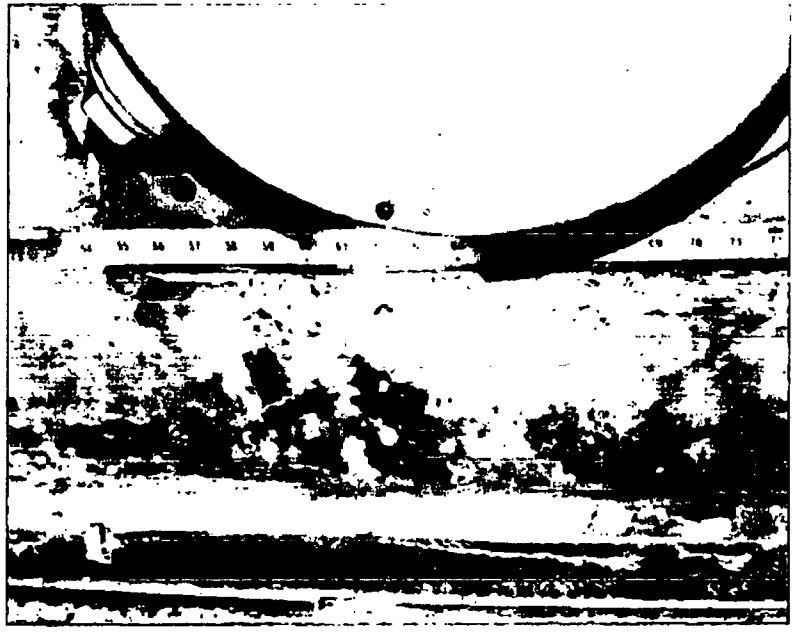
Report No.: VT-01-315

Page: 5 of 6

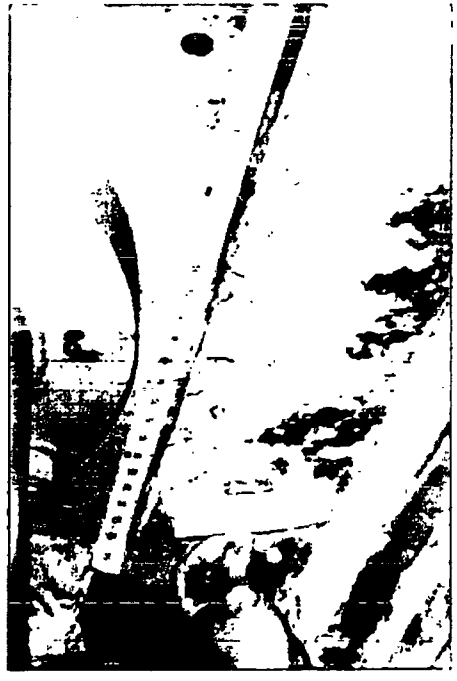
Summary No.:	RBCN-0003						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CK	Date:	12-10-01

Comments: **Item #3 (Reference Page 1 - Condition 1): Exposed metal and one (1) spall 18" long, 2 1/2" wide, and 1 1/2" deep (reference pic(s) #item3ba previous page, #item3bb, and #item3bc).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_315_Item3bb.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_315_Item3bc.jpg



Florida Power
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Supplemental Report

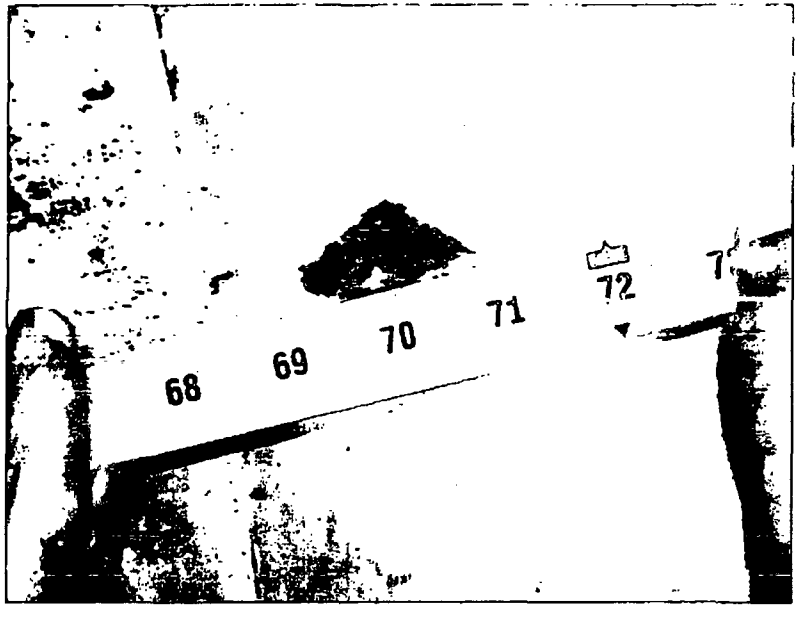
Report No.: VT-01-315

Summary No.:	RBCN-0003						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #2 (Reference Page 1 - Condition 22): Two (2) areas of exposed metal (reference pic(s) #item2a and #item2b).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_315_item2a.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_315_item2b.jpg



Florida Power
A Progress Energy Company

Visual Examination of IWL (VT-1C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0010 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-305

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 6

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 119' to EL. 267' 6" (Buttress #4 to #5)

Drawing No.: S-425-002 (Rev. 1) | Description: RBCN-0010 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0010 (Items #1 and #4)

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found | Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix | Serial No.: TI-2856 / TI-2858 | Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	__	__	X	12) Reinforcing Bar Corrosion	__	__	__	X
2) Cracking	__	__	__	X	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	__	X	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	__	X	__	15) Efflorescense	__	__	X	__
5) Water In Leakage	__	__	X	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	__	X	__	17) Voids	__	__	X	__
7) Popouts	__	__	__	X	18) Erosion	__	__	X	__
8) Deflection	__	__	X	__	19) Pitting	__	__	X	__
9) Staining	__	__	X	__	20) Abrasion	__	__	X	__
10) Discoloration	__	__	X	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	__	X	__	22) Other	__	__	X	__

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D. /	II	Jerry D Brown	11/05/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A /	N/A			Joe Lese, PE /	Joe B. Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A	[illegible]	11/05/01	C. Colarte /	Carlos A. Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

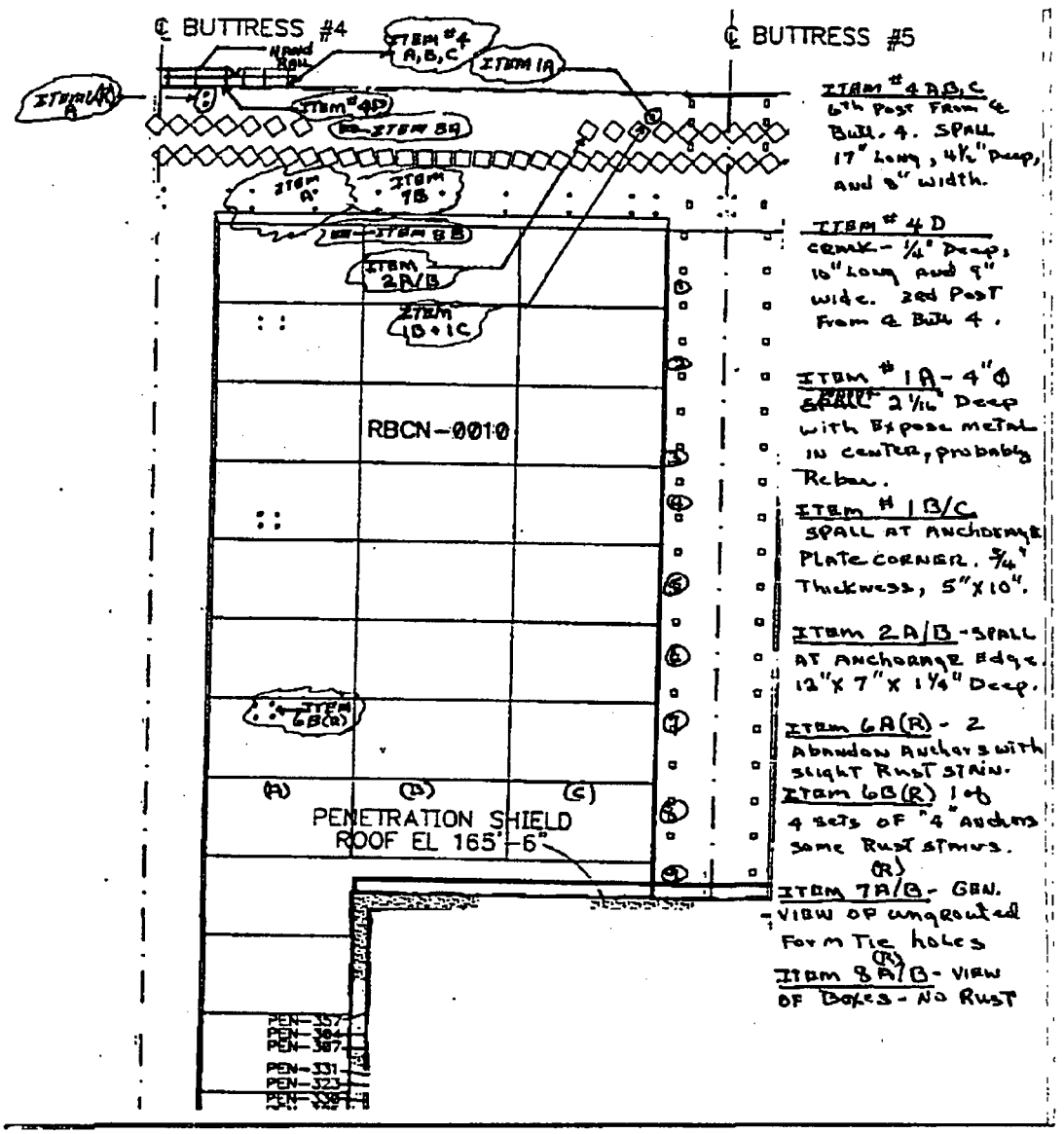
Report No.: VT-01-305

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305a.jpg



Florida Power
A Progress Energy Company

Supplemental Report

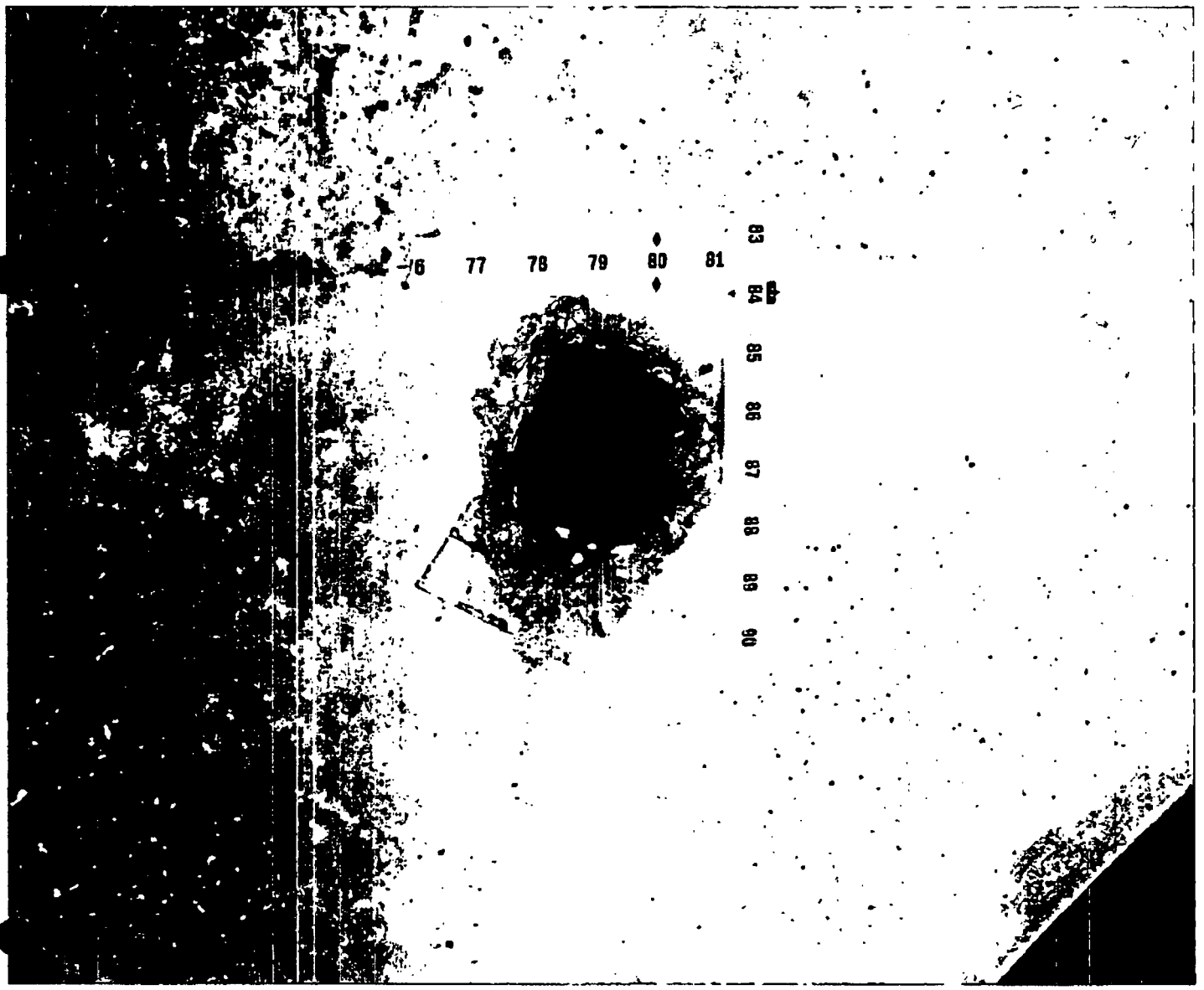
Report No.: VT-01-305

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Item #1A (Reference Page 1 - Conditions 7and 12): 4" diameter popout 2 1/16" deep with expose metal in center, probably rebar (reference pic #item1A).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305_item1a.jpg



Florida Power
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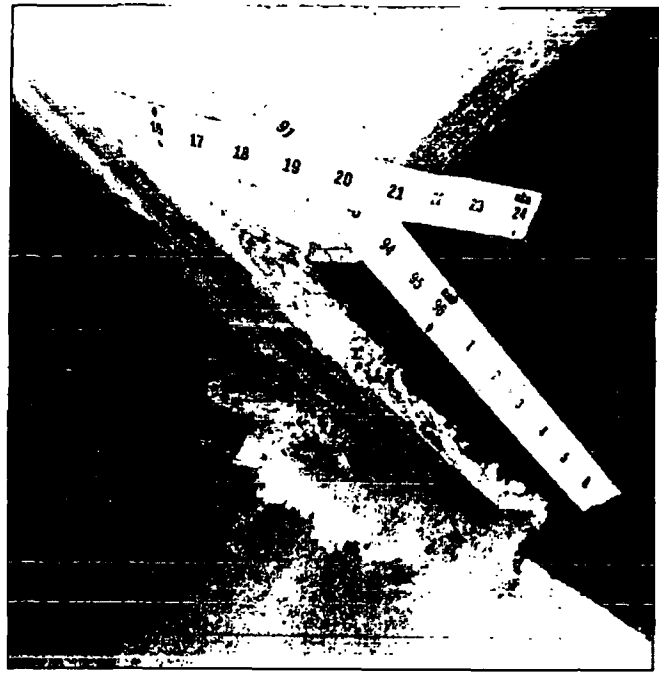
Supplemental Report

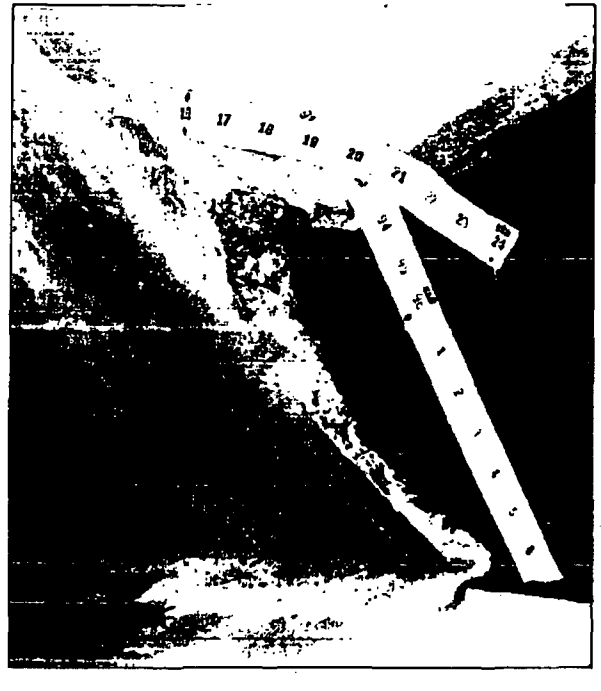
Summary No.:	RBCN-0010						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JDL	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #1B/C (Reference Page 1 - Condition 1): Spall at anchorage plate corner. 3/4" thickness, 5" x 10" (reference pic(s) #item1B and #item1C).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305_item1b.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305_item1c.jpg



Florida Power
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Supplemental Report

Report No.: VT-01-305

Page: 5 of 6

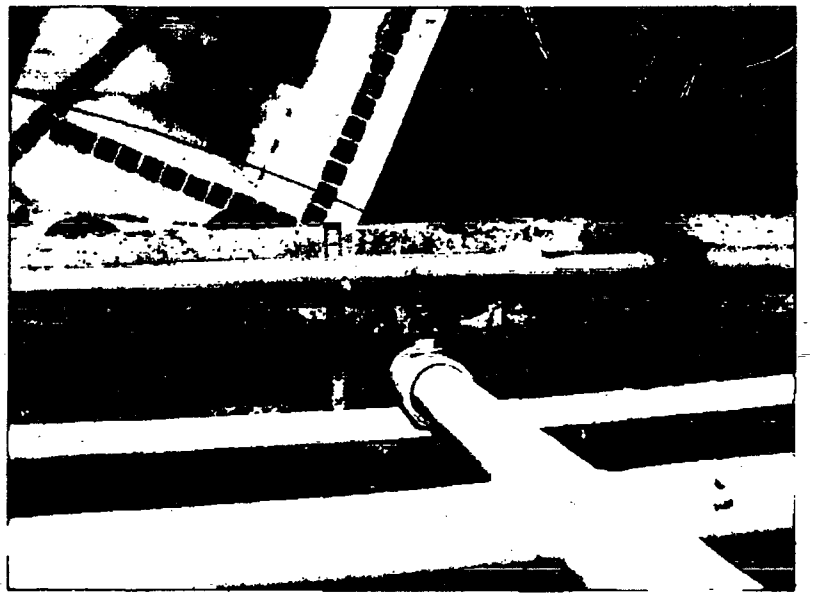
Summary No.: RBCN-0010

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Item #4A/B (Reference Page 1 - Condition 1): 6th post from centerline Buttress #4. Spall 17" long, 4 1/2" deep and 8" width (reference pic(s) #item4A and #item4B).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305_Item4a.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305_Item4b.jpg



Florida Power
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Supplemental Report

Report No.: VT-01-305

Page: 6 of 6

Summary No.: RBCN-0010

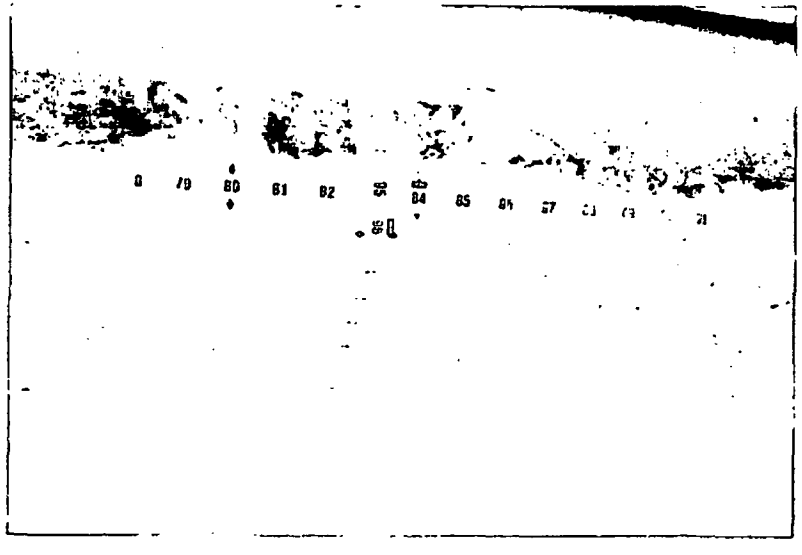
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Item #4C (Reference Page 1 - Condition 1): 6th post from centerline Buttress #4. Spall 17" long, 4 1/2" deep and 8" width (reference pic(s) #Item4C).**

Item#4D (Reference Page 1 - Condition 2): Crack 1/4" deep, area 10" long and 9" wide. 3rd post from centerline Buttress #4.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305_item4c.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_305_item4d.jpg



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0010	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-307
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6" (Buttress #4 to #5)

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0010 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0010 Items #2, #6(R), #7(R), and #8(R)

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix Serial No.: TI-2856 / TI-2858 Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas _ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	_	_	_	X	12) Reinforcing Bar Corrosion	_	_	X	_
2) Cracking	_	_	X	_	13) Rust Bleeding	_	_	_	X
3) Delaminations	_	_	X	_	14) Tendon Surface Cracking	_	_	X	_
4) Honeycomb	_	_	X	_	15) Efflorescense	_	_	X	_
5) Water In Leakage	_	_	X	_	16) Cosmetic Patch Bond	_	_	X	_
6) Chemical Leaching	_	_	X	_	17) Voids	_	_	X	_
7) Popouts	_	_	X	_	18) Erosion	_	_	X	_
8) Deflection	_	_	X	_	19) Pitting	_	_	X	_
9) Staining	_	_	X	_	20) Abrasion	_	_	X	_
10) Discoloration	_	_	X	_	21) Segregation	_	_	X	_
11) Vibration Damage	_	_	X	_	22) Other	_	_	_	X

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level II	Signature	Date	Reviewer		Signature	Date
Brown, Jerry D.	/	Jerry D Brown	11/05/01	Paul A. Wright / Level III	/	Paul A. Wright	11/12/01
Examiner	Level N/A	Signature	Date	Site Review		Signature	Date
N/A	/			Joe Lese, PE	/	Joe C. Lese	11/14/01
Other	Level N/A	Signature	Date	ANII Review		Signature	Date
Wilson, T. Rand		T. Rand Wilson	11/05/01	C. Colarte	/	Carlos A. Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

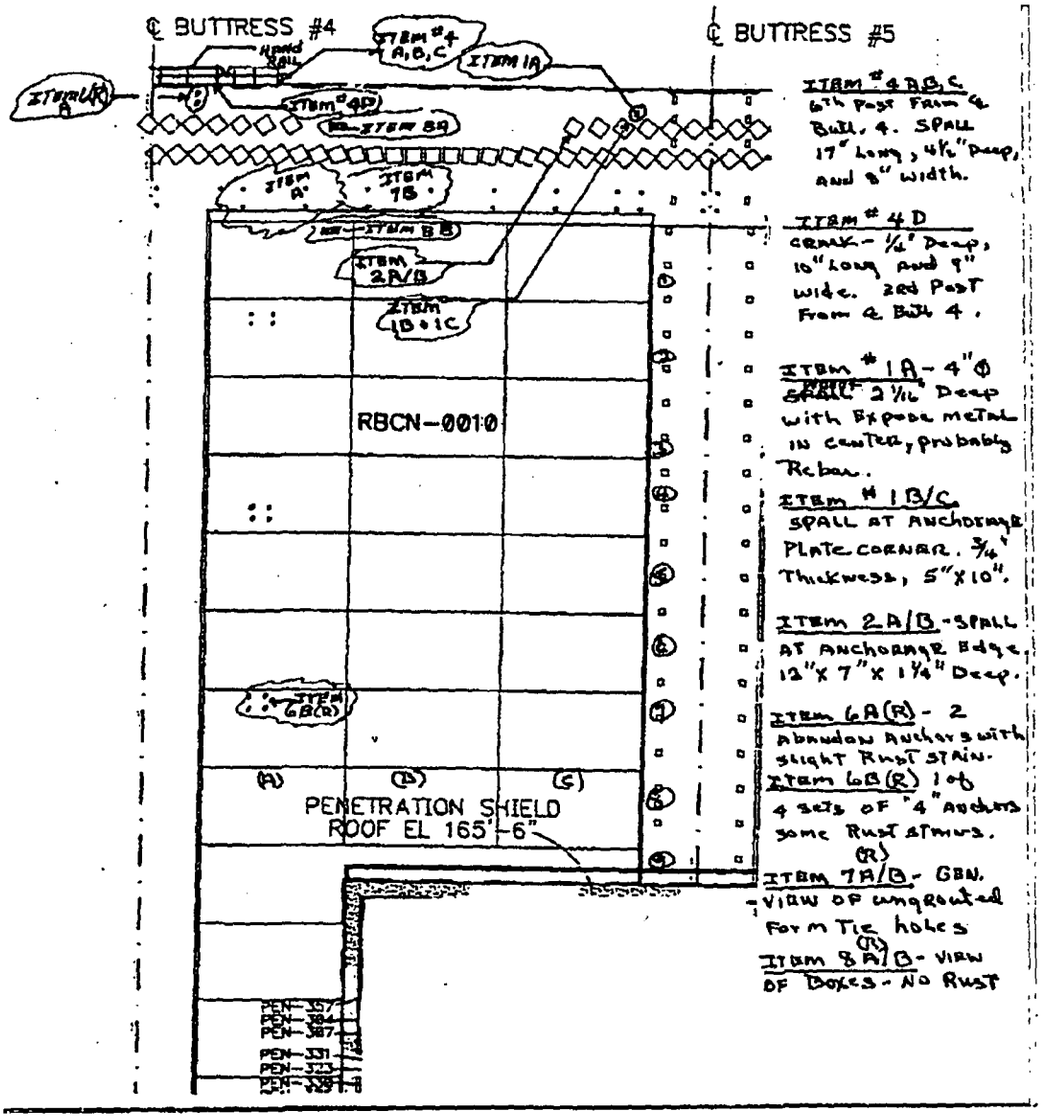
Report No.: VT-01-307

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Approximate Photo Locations

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307a.jpg



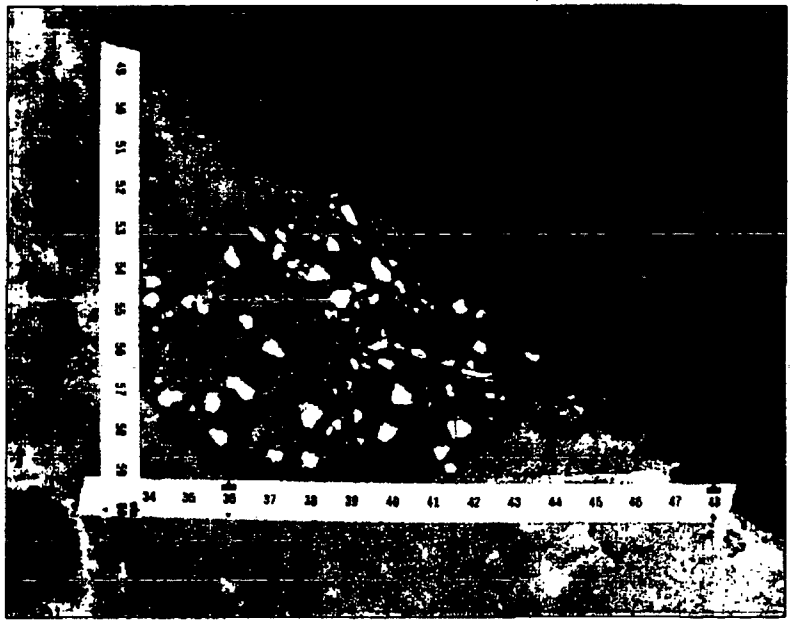
Florida Power
A Progress Energy Company

Supplemental Report

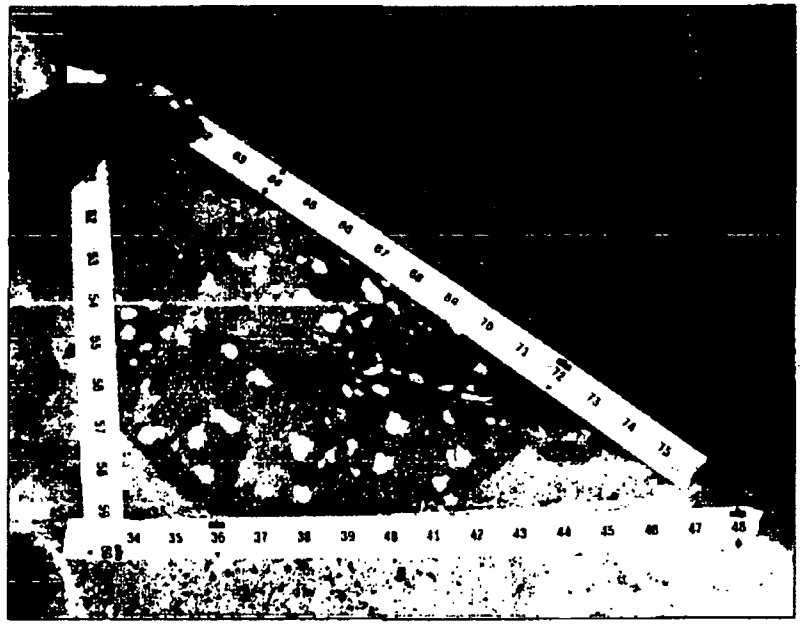
Summary No.:	RBCN-0010						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/a/01

Comments: **Item #2A/B (Reference Page 1 - Condition 1): Spall at anchorage edge 12" x 7" x 1 1/4" deep (reference pic(s) #item2A and #item2B).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item2a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item2b.jpg



Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-307

Page: 4 of 6

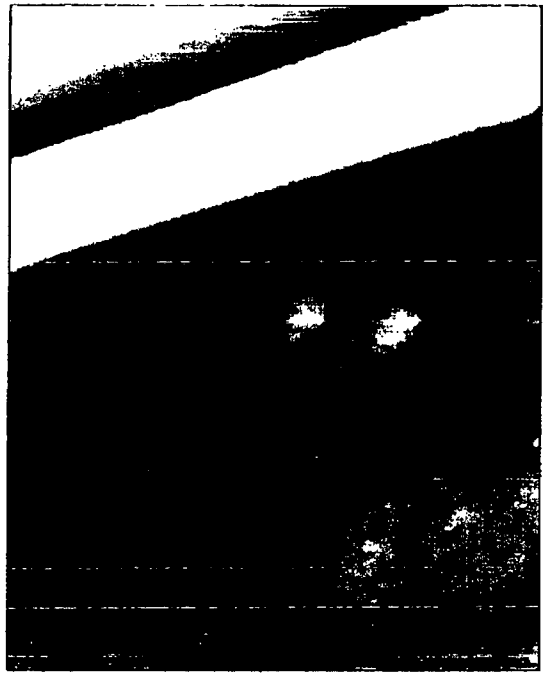
Summary No.: RBCN-0010

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JAL	Date:	11/14/01
Other:	Wilson, T. Rand TW	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

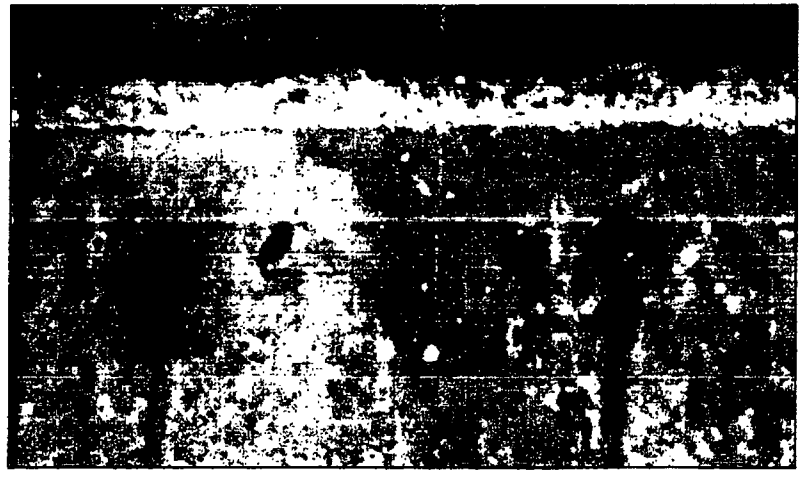
Comments: Item #6A(R) (Reference Page 1 - Condition 13): Two (2) abandoned anchors with slight rust stain (reference pic #item6A).

Item #6B(R) (Reference Page 1 - Condition 13): One (1) of four (4) sets of 4" anchors. Some rust stains (reference pic #item6B).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item6a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item6b.jpg



Florida Power
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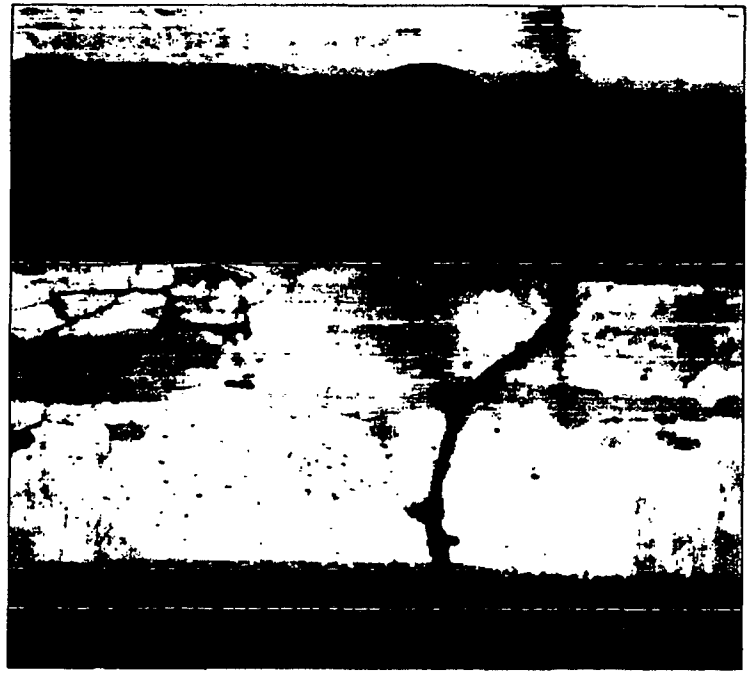
Supplemental Report

Summary No.: RBCN-0010

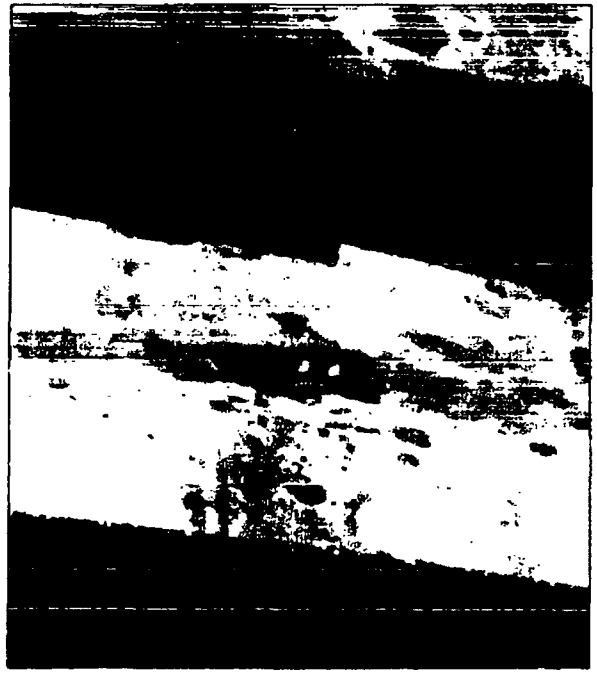
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CK	Date:	11-10-01

Comments: **Item #7A/B(R) (Reference Page 1 - Condition 22): General view of ungrouted form tie holes (reference pic(s) #item7A and #item7B).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item7a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item7b.jpg



Florida Power
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Supplemental Report

Report No.: VT-01-307
Page: 6 of 6

Summary No.: RBCN-0010

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #8A/B(R) (Reference Page 1 - Condition 22): View of boxes - no rust (reference pic(s) #item8A and #item8B).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item8a.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_307_item8b.jpg

Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0011	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-308
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6" (Buttress #5 to #6)

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0011 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0011 Items #4, #3(R), and #12(R)

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix Serial No.: TI-2856 / TI-2858 Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	__	X	__	12) Reinforcing Bar Corrosion	__	__	X	__
2) Cracking	__	__	X	__	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	__	X	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	__	X	__	15) Efflorescense	__	__	X	__
5) Water In Leakage	__	__	X	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	__	X	__	17) Voids	__	__	__	X
7) Popouts	__	__	X	__	18) Erosion	__	__	X	__
8) Deflection	__	__	X	__	19) Pitting	__	__	X	__
9) Staining	__	__	X	__	20) Abrasion	__	__	X	__
10) Discoloration	__	__	X	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	__	X	__	22) Other	__	__	__	X

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner Level II	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	Jerry D Brown	11/06/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner Level N/A	Signature	Date	Site Review	Signature	Date
N/A /			Joe Lese, PE /	Joe Lese	11/14/01
Other Level N/A	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand /	T. Rand Wilson	11/06/01	C. Colarte /	Carlos A. Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

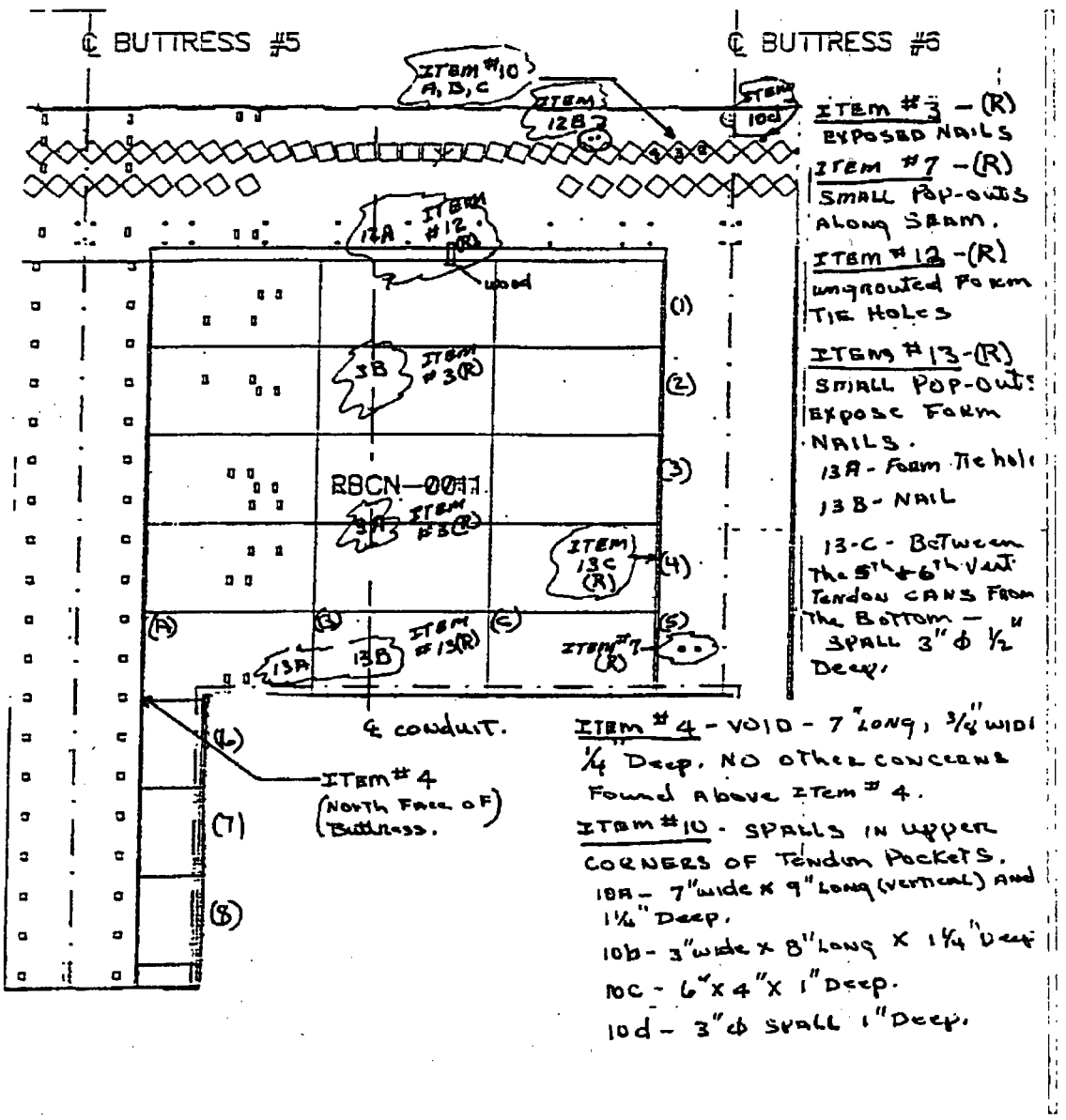
Report No.: VT-01-308

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308a.jpg



Florida Power
A Progress Energy Company

Supplemental Report

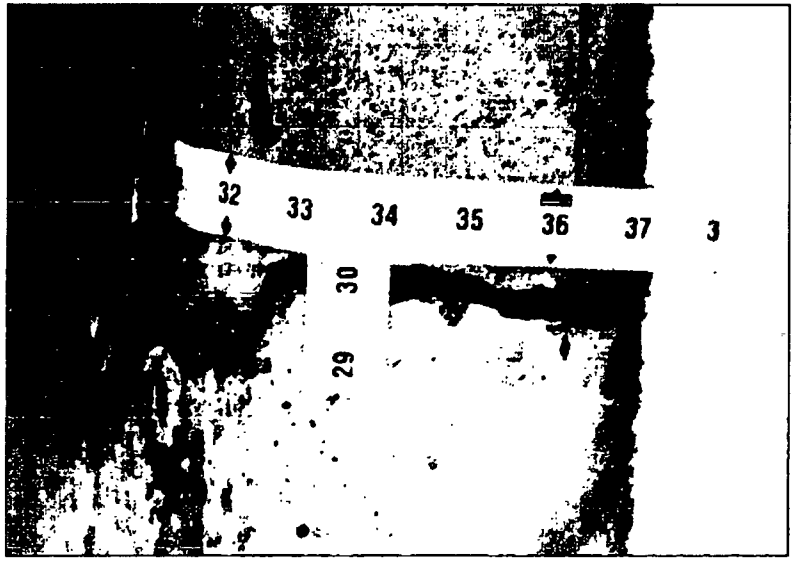
Report No.: VT-01-308

Summary No.: RBCN-0011

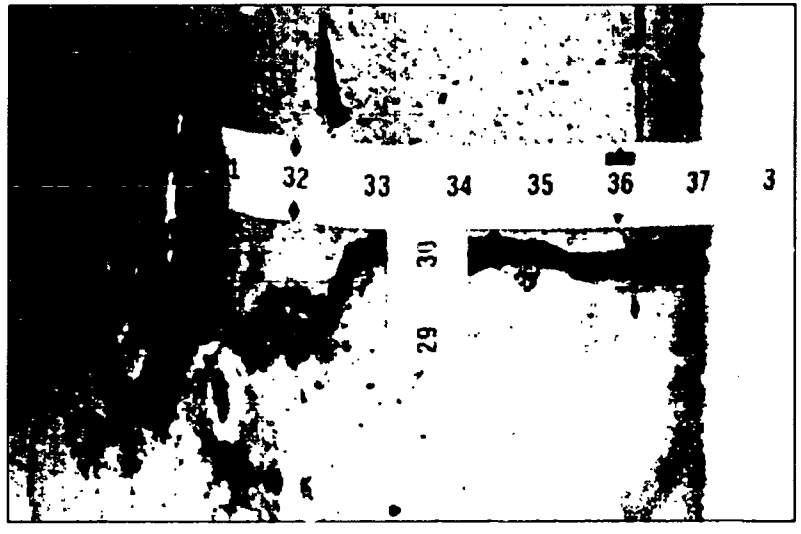
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CEC	Date:	12/20/

Comments: Item #4 (Reference Page 1 - Condition 17): Void 7" long, 3/8" wide, 1/4" deep. No other concerns found above Item #4 (reference pic(s) #item4A, #item4B, #item4C next page, and #item 4D next page).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_item4a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_item4b.jpg



Florida Power
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Supplemental Report

Report No.: VT-01-308

Page: 4 of 6

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12/12/01

Comments: Item #4 (Reference Page 1 - Condition 17): Void 7" long, 3/8" wide, 1/4" deep. No other concerns found above Item #4 (reference pic(s) #item4A previous page, #item4B previous page, #item4C, and #item 4D).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_Item4c.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_Item4d.jpg

Florida Power
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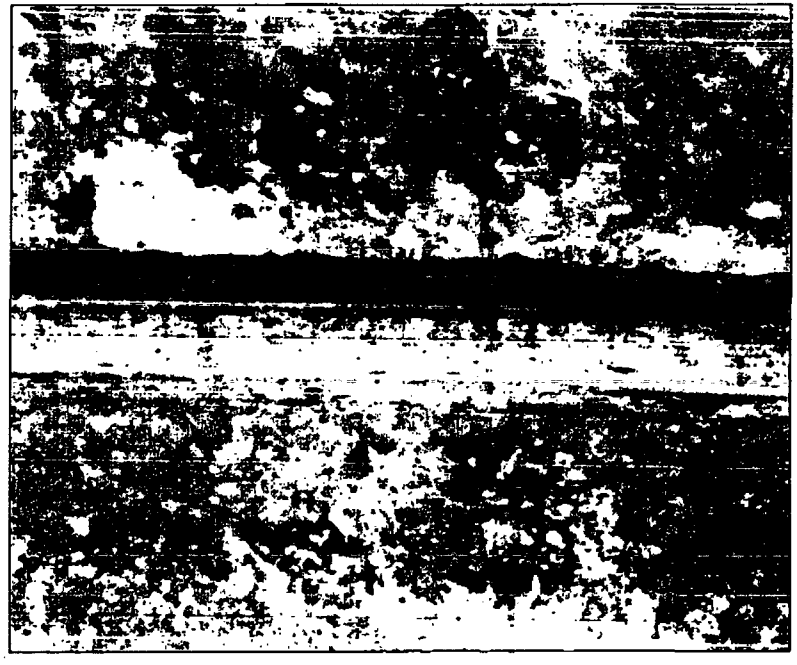
Supplemental Report

Report No.: VT-01-308

Summary No.:	RBCN-0011						
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CK	Date:	12-10-01

Comments: Item #3(R) (Reference Page 1 - Condition 22): Exposed nails (reference pic(s) #Item3A and #Item3B).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_item3a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_item3b.jpg

Florida Power
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Supplemental Report

Report No.: VT-01-308

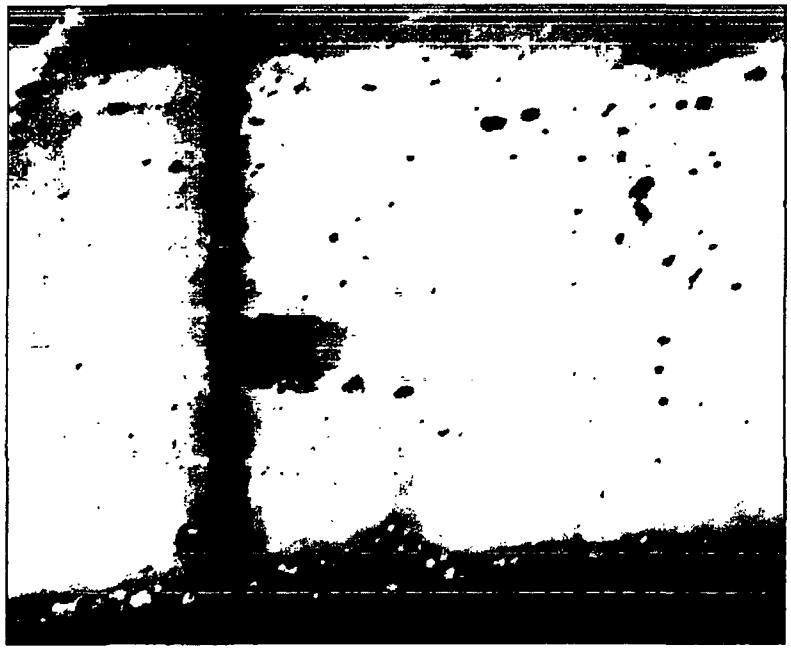
Page: 6 of 6

Summary No.: RBCN-0011

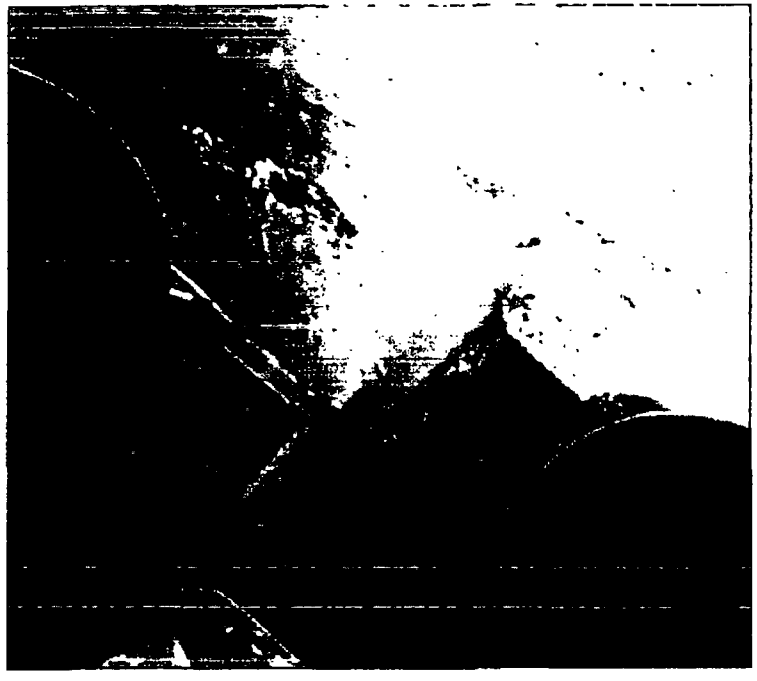
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/6/01

Comments: **Item #12(R) (Reference Page 1 - Condition 22): Ungrouted form tie holes (reference pic(s) #item12A and #item12B).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_item12a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_308_item12b.jpg



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0011 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-309

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 5

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: EL. 119' to EL. 267' 6" (Buttress #5 to #6)

Drawing No.: S-425-002 (Rev. 1) | Description: RBCN-0011 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0011 Item #10

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found | Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix | Serial No.: TI-2856 / TI-2858 | Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas ___ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	___	___	___	X	12) Reinforcing Bar Corrosion	___	___	X	___
2) Cracking	___	___	X	___	13) Rust Bleeding	___	___	X	___
3) Delaminations	___	___	X	___	14) Tendon Surface Cracking	___	___	X	___
4) Honeycomb	___	___	X	___	15) Efflorescense	___	___	X	___
5) Water In Leakage	___	___	X	___	16) Cosmetic Patch Bond	___	___	X	___
6) Chemical Leaching	___	___	X	___	17) Voids	___	___	X	___
7) Popouts	___	___	X	___	18) Erosion	___	___	X	___
8) Deflection	___	___	X	___	19) Pitting	___	___	X	___
9) Staining	___	___	X	___	20) Abrasion	___	___	X	___
10) Discoloration	___	___	X	___	21) Segregation	___	___	X	___
11) Vibration Damage	___	___	X	___	22) Other	___	___	X	___

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry Brown	11/06/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe C. Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A	T. Rand Wilson	11/06/01	C. Colarte /	Carlos Colarte	12-12-01

Florida Power
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Supplemental Report

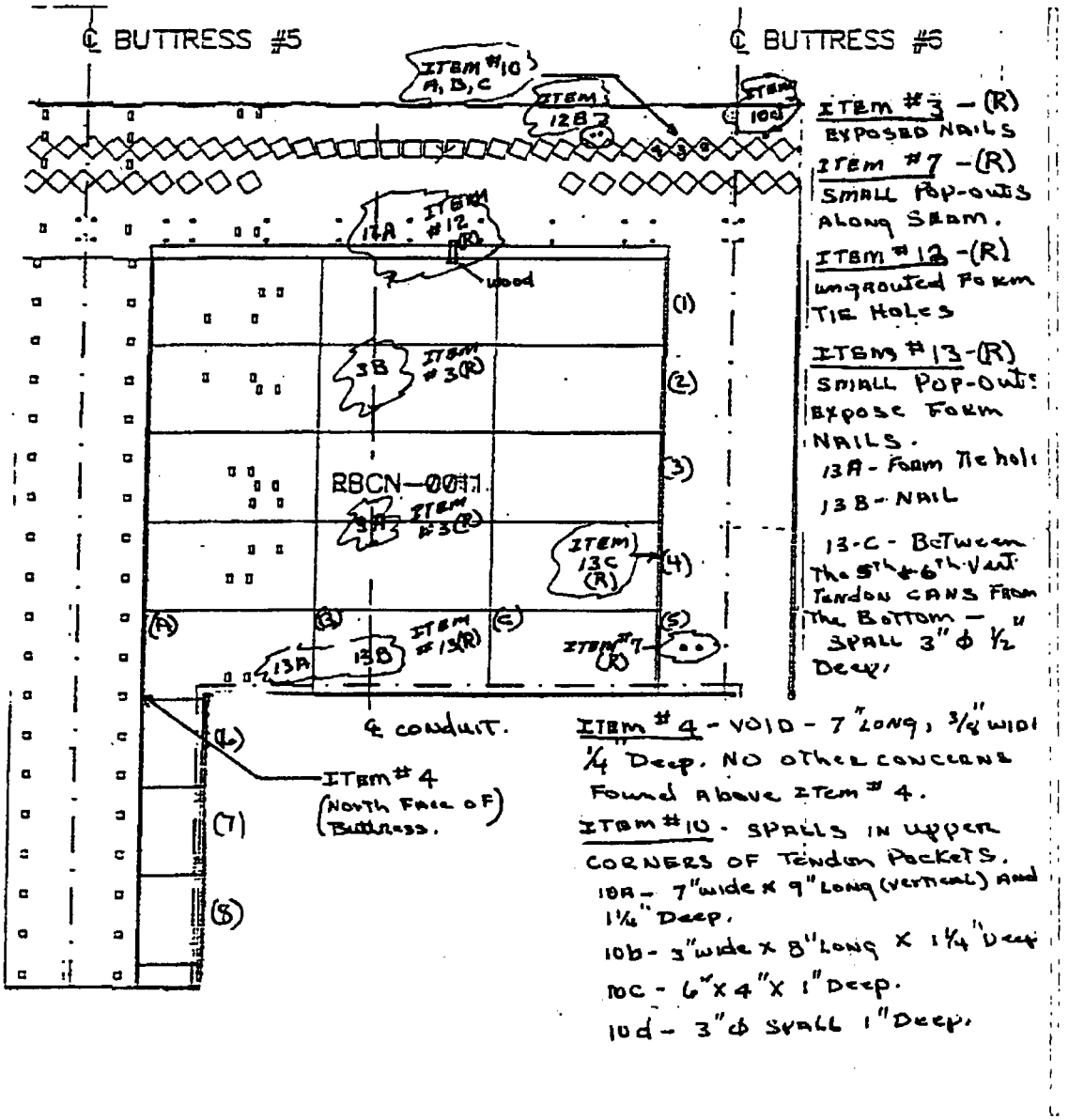
Report No.: VT-01-309

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_309a.jpg



Florida Power
A Progress Energy Company

Supplemental Report

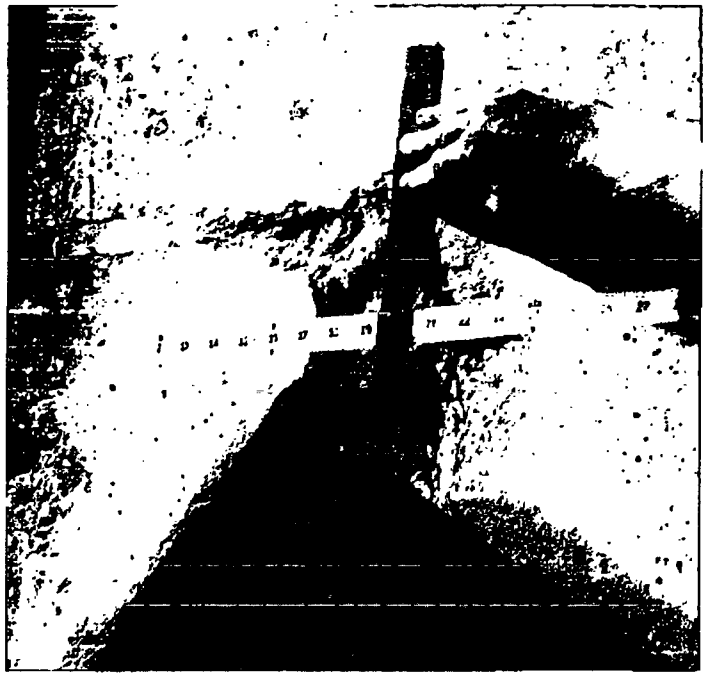
Report No.: VT-01-309

Summary No.:	RBCN-0011						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Item #10 (Reference Page 1 - Condition 1): Spalls in upper corners of tendon pockets (reference pic(s) #item10A, #item10B, #item10C following page, #item 10D1 following page, #item10D2 following page, and #item10E following page).**

Item #10A - 7" wide x 9" long (vertical) and 1 1/4" deep.
Item #10B - 3" wide x 8" long x 1 1/4" deep.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_309_item10a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_309_item10b.jpg

Florida Power
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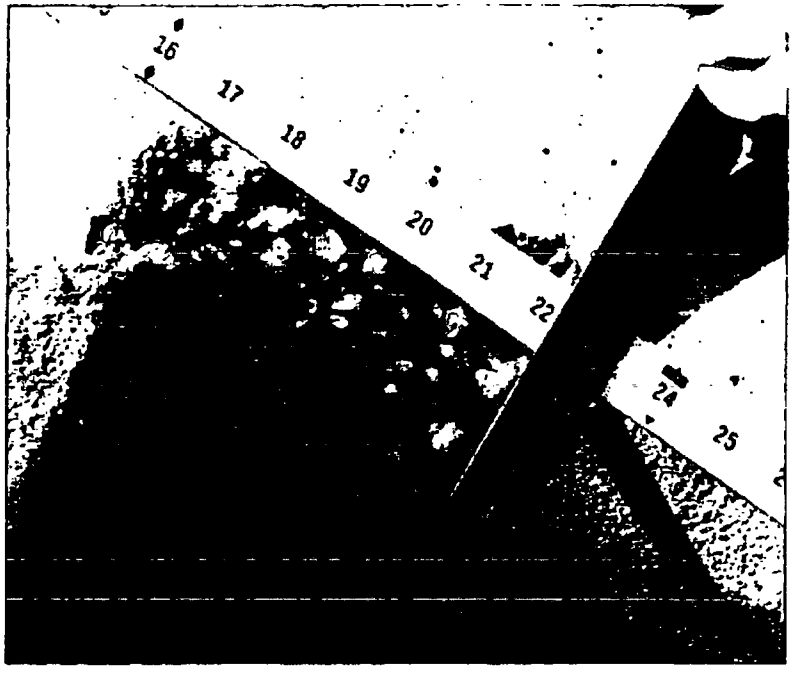
Supplemental Report

Summary No.:	RBCN-0011						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	11/20/01

Comments: **Item #10 (Reference Page 1 - Condition 1): Spalls in upper corners of tendon pockets (reference pic(s) #item10A previous page, #item10B previous page, #item10C, #item 10D1, #item10D2 following page, and #item10E following page).**

Item #10C - 6" x 4" x 1" deep.
Item #10D1 - 3" diameter spall, 1" deep.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_309_item10c.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_309_item10d1.jpg

Florida Power
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Supplemental Report

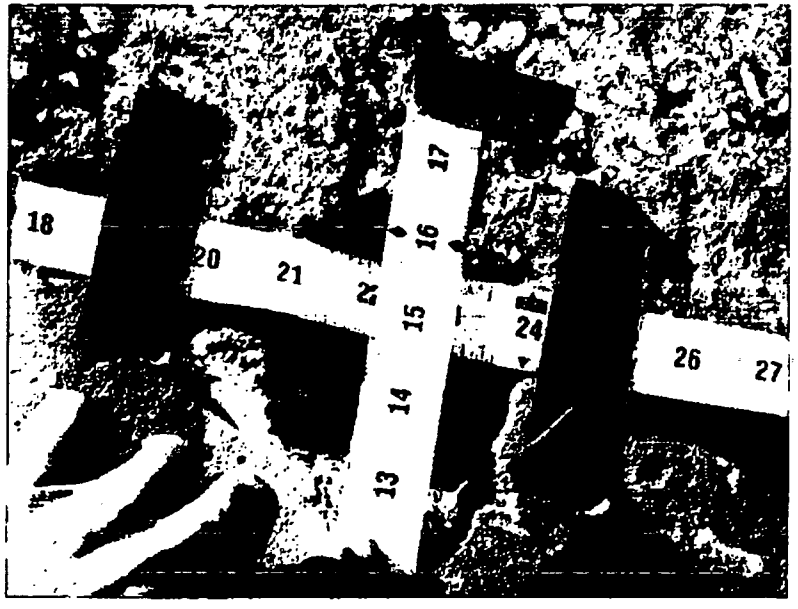
Report No.: VT-01-309

Summary No.:	RBCN-0011						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/20/1

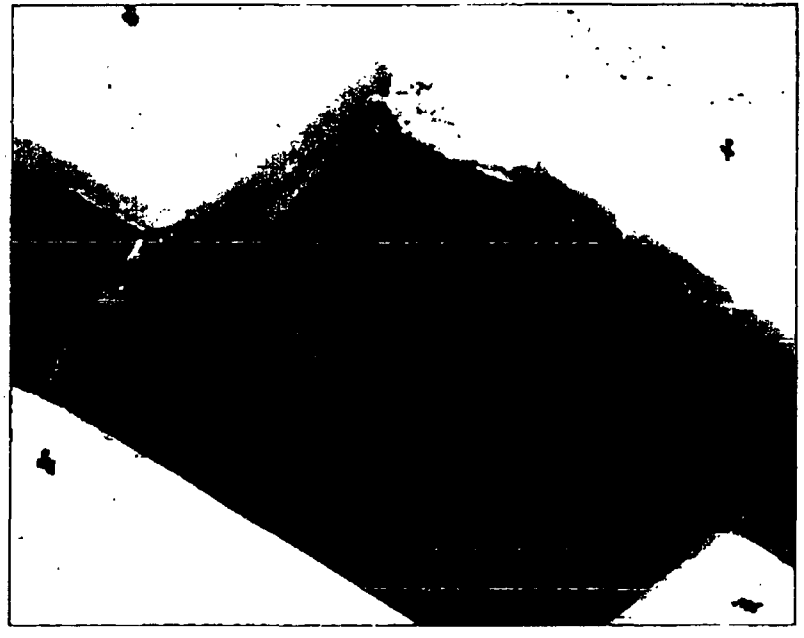
Comments: Item #10 (Reference Page 1 - Condition 1): Spalls in upper corners of tendon pockets (reference pic(s) #item10A previous page, #item10B previous page, #item10C previous page, #item 10D1 previous page, #item10D2, and #item10E).

Item #10D2 - 3" diameter spall, 1" deep.
Item #10E????

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_309_Item10d2.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_309_Item10e.jpg



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0011	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-310
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 5

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6" (Buttress #5 to #6)

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0011 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0011 Items #7(R) and #13(R)

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix Serial No.: TI-2856 / TI-2858 Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	__	__	X	12) Reinforcing Bar Corrosion	__	__	X	__
2) Cracking	__	__	X	__	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	__	X	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	__	X	__	15) Efflorescense	__	__	X	__
5) Water In Leakage	__	__	X	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	__	X	__	17) Voids	__	__	X	__
7) Popouts	__	__	__	X	18) Erosion	__	__	X	__
8) Deflection	__	__	X	__	19) Pitting	__	__	X	__
9) Staining	__	__	X	__	20) Abrasion	__	__	X	__
10) Discoloration	__	__	X	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	__	X	__	22) Other	__	__	__	X

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D. Brown	11/06/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe B. Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A /	Rand Wilson	11/06/01	C. Colarte /	Carlos A. Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

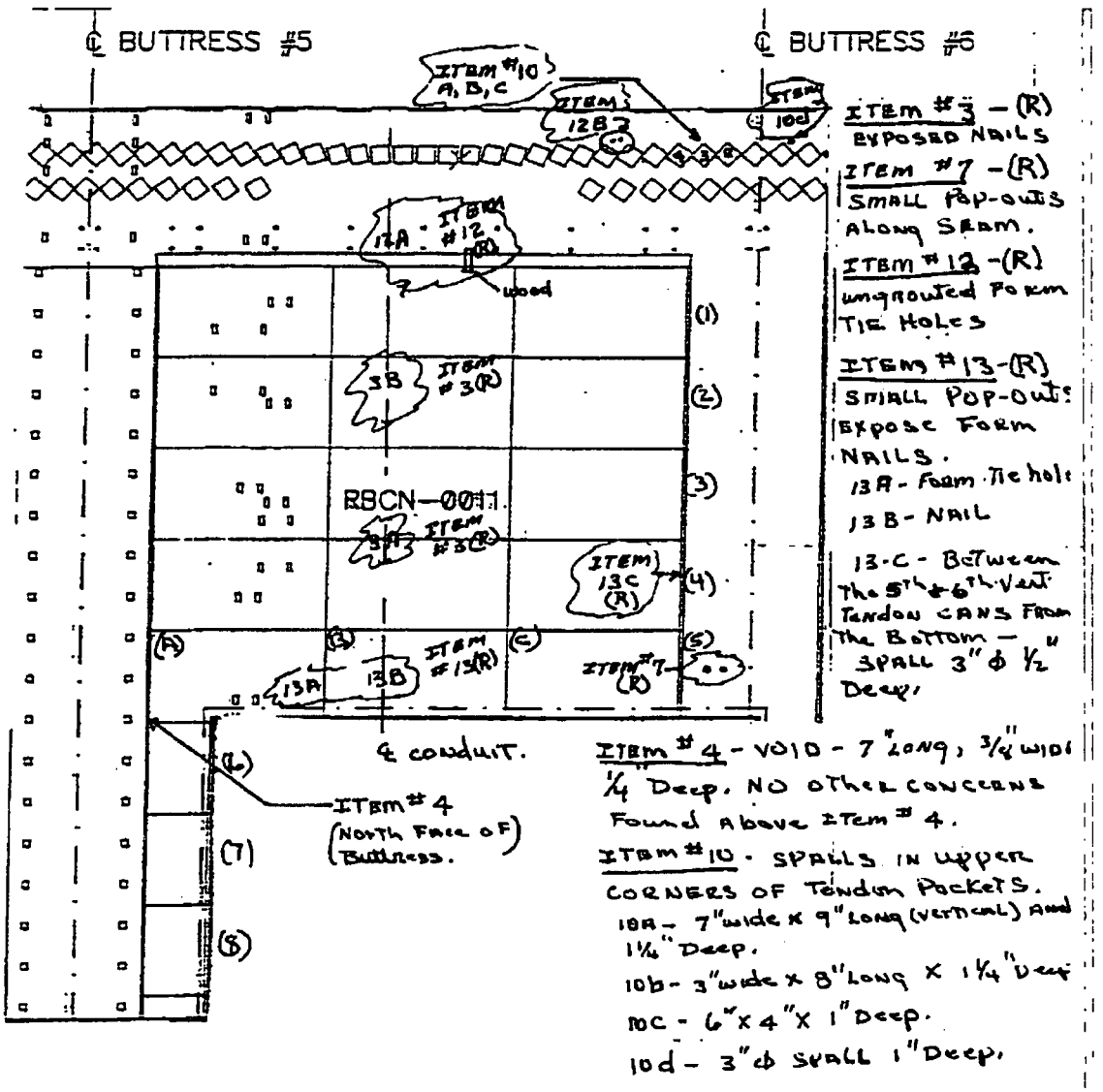
Report No.: VT-01-310

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-1-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_310a.jpg



Florida Power
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Supplemental Report

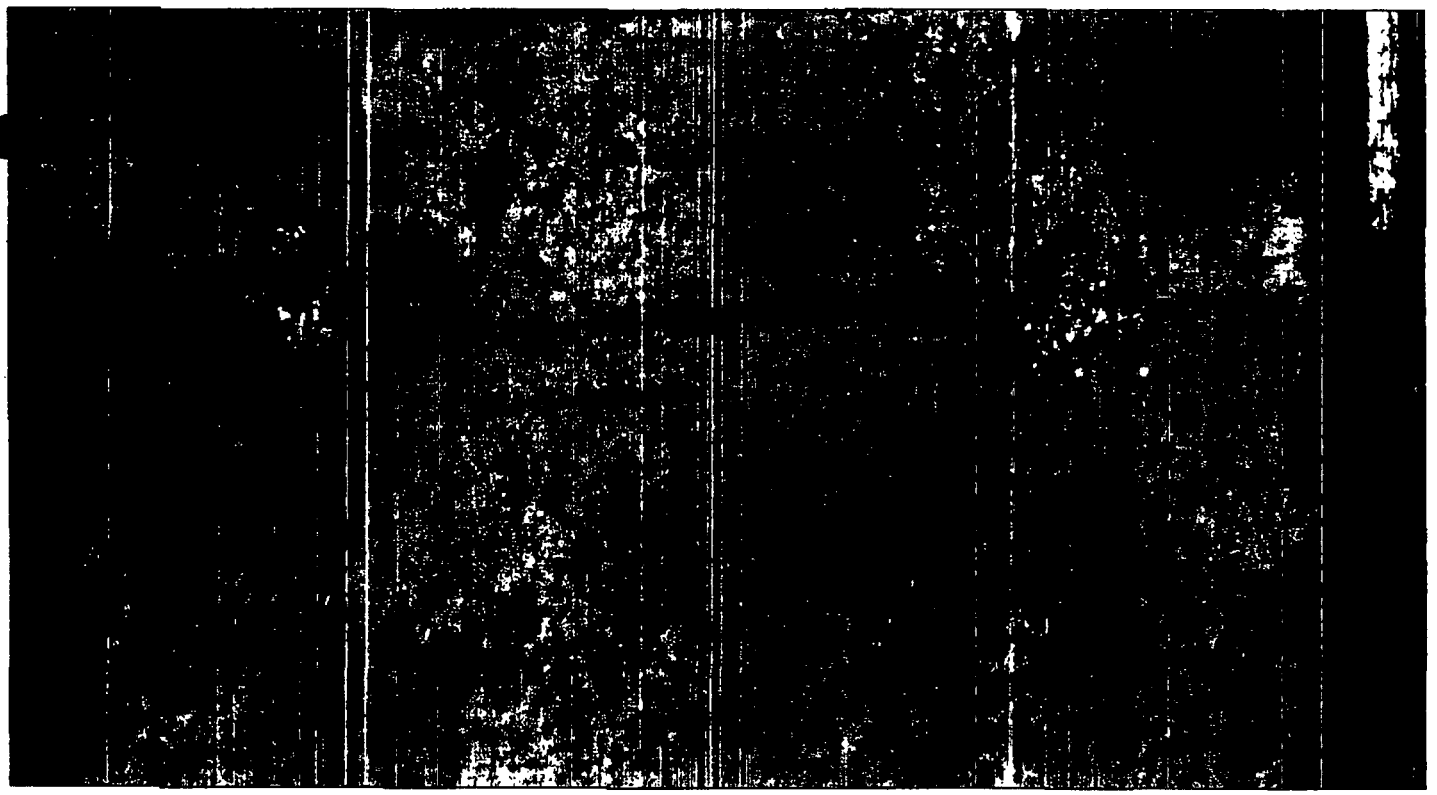
Report No.: VT-01-310

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11/14/01
Other:	Wilson, T. Rand TW	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #7(R) (Reference Page 1 - Condition 7): Small popouts along seam (reference pic #item7).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_310_item7.jpg



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Supplemental Report

Report No.: VT-01-310
Page: 4 of 5

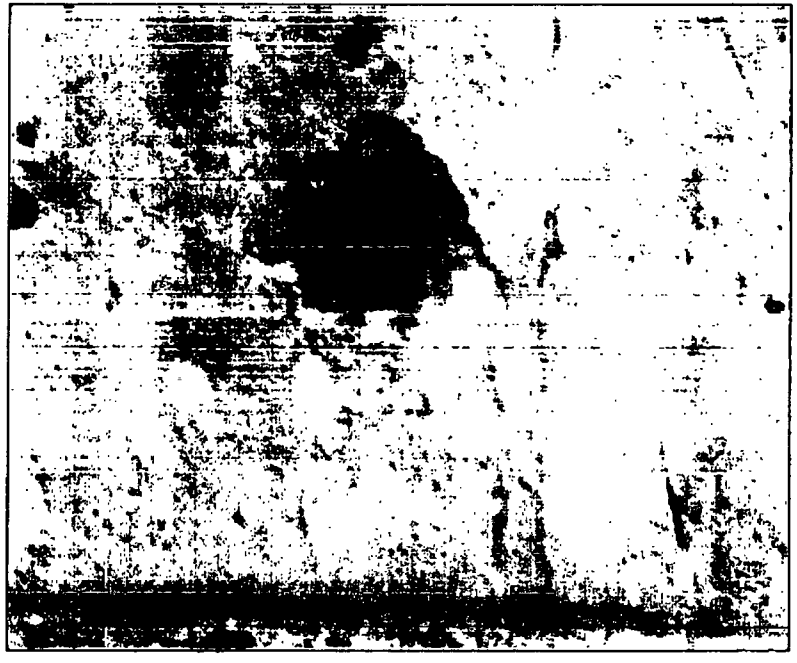
Summary No.: RBCN-0011

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

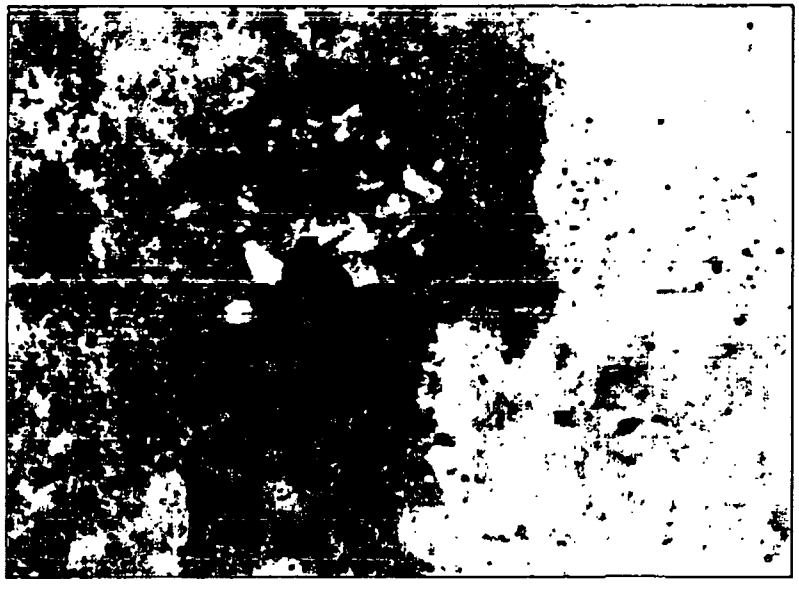
Comments: **Item #13(R) (Reference Page 1 - Conditions 1, 7, and 22): Small popouts expose form nails (reference pic(s) #item13A, #item13B, and #item13C following page).**

Item #13A - Form tie hole. Item #13B - Nail.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_310_item13a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_310_item13b.jpg



Florida Power
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Supplemental Report

Report No.: VT-01-310

Summary No.: RBCN-0011

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12/1/01

Comments: Item #13(R) (Reference Page 1 - Condition 1, 7, and 22): Small popouts expose form nails (reference pic(s) #Item13A previous page, #Item13B previous page, and #Item13C).

Item #13C - Between the 5th and 6th vertical tendon cans from the bottom - spall 3" diameter 1/2" deep.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_310_Item13c.jpg

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Visual Examination of IWL (VT-1C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0012	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-311
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6" (Buttress #6 to #1)

Drawing No.: S-425-002 (Rev. 1) Description: RBCN-0012 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0012 Items #1(R) and #2

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix Serial No.: TI-2856 / TI-2858 Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	__	__	X	12) Reinforcing Bar Corrosion	__	__	__	X
2) Cracking	__	__	X	__	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	__	X	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	__	X	__	15) Efflorescense	__	__	X	__
5) Water In Leakage	__	__	X	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	__	X	__	17) Voids	__	__	X	__
7) Popouts	__	__	__	X	18) Erosion	__	__	X	__
8) Deflection	__	__	X	__	19) Pitting	__	__	X	__
9) Staining	__	__	X	__	20) Abrasion	__	__	X	__
10) Discoloration	__	__	X	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	__	X	__	22) Other	__	__	__	X

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry D Brown	11/06/01	Paul A. Wright / Level III /	Paul A Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe C. Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A	[illegible]	11/06/01	C. Colarte /	Carlos A. Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

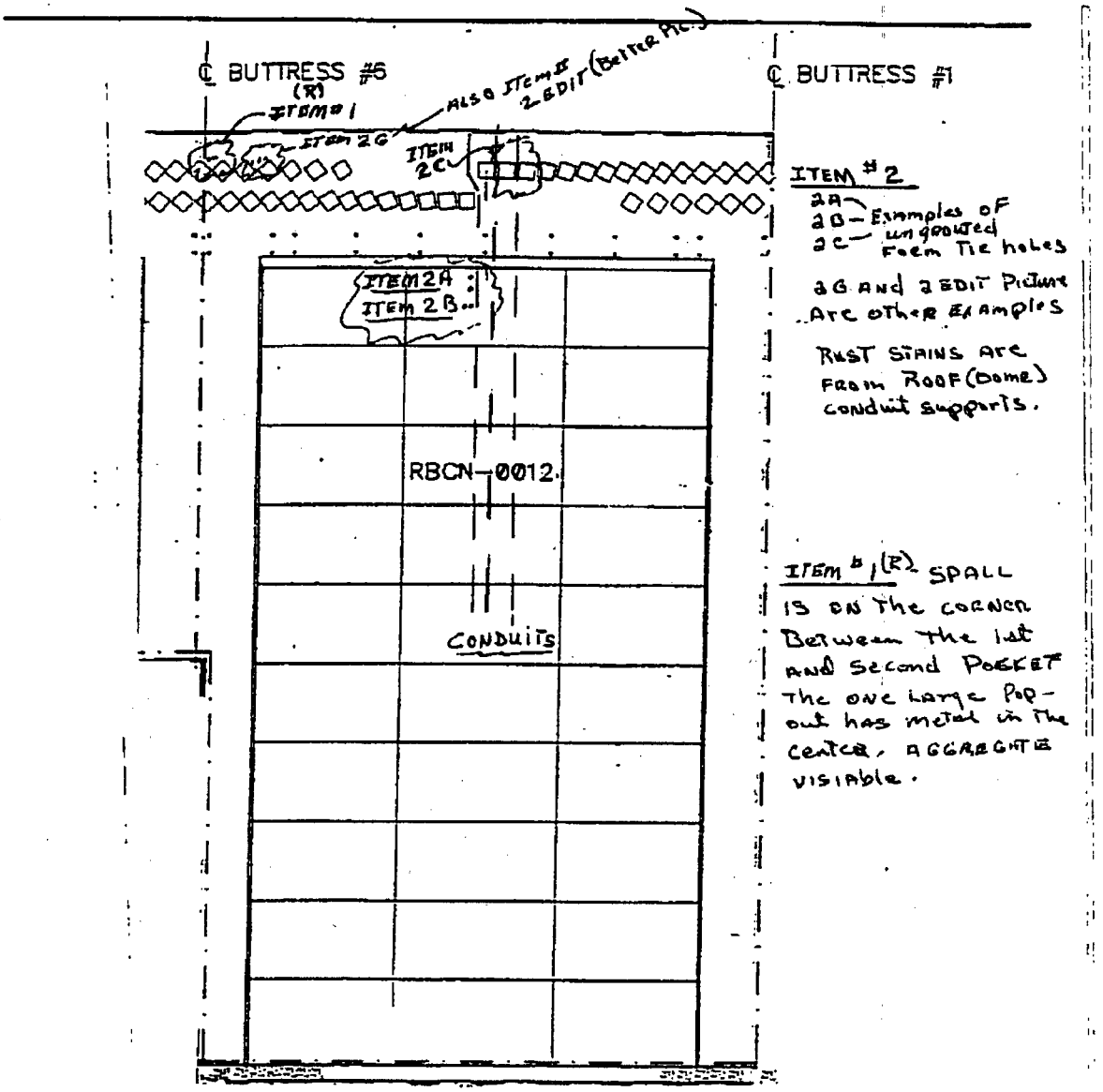
Report No.: VT-01-311

Summary No.: RBCN-0012

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12/10/01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_311a.jpg



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Supplemental Report

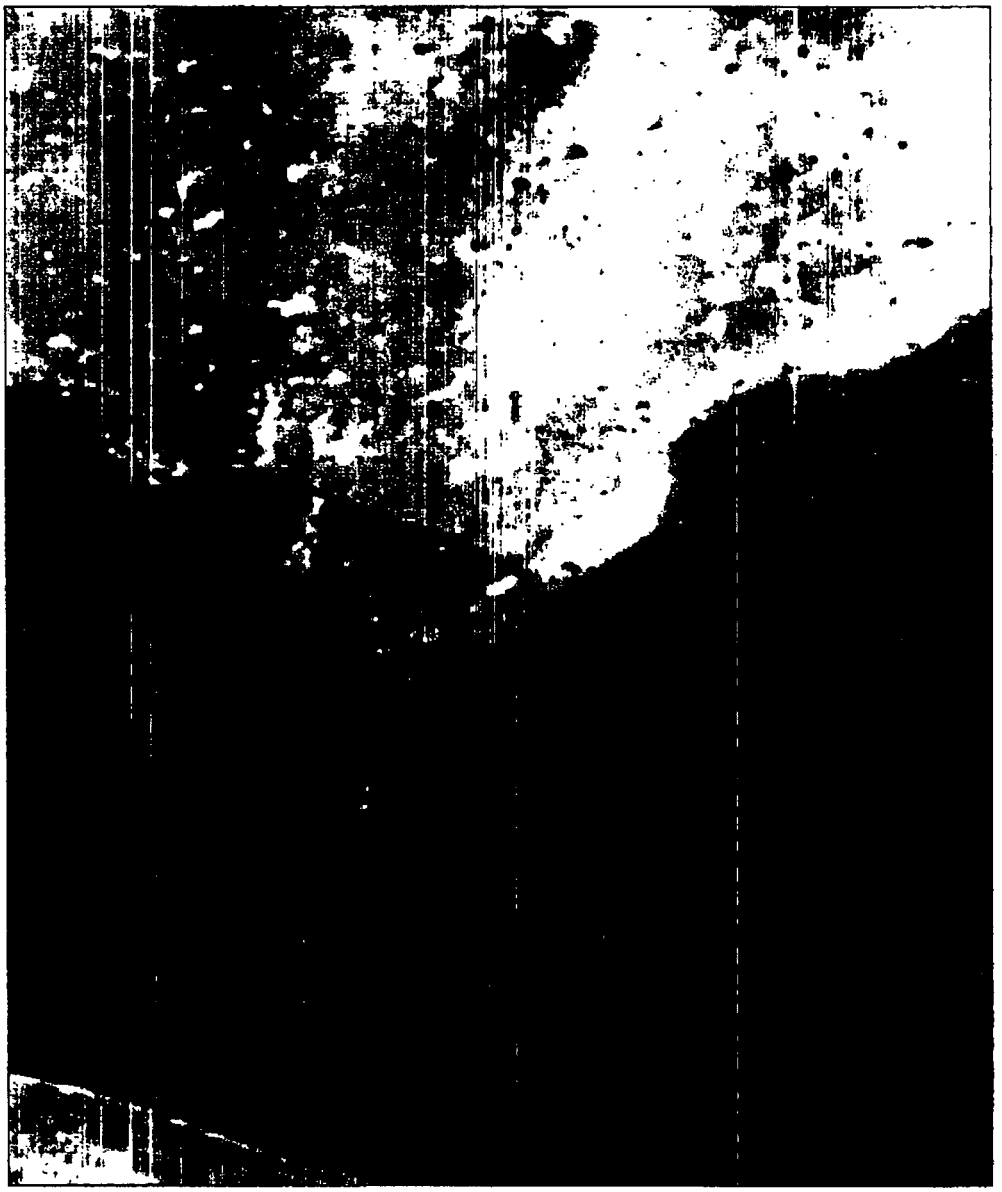
Report No.: VT-01-311

Summary No.: RBCN-0012

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11/14/01
Other:	Wilson, T. Rand TW	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #1(R) (Reference Page 1 - Condition 1, 7 & 12): Spall is on the corner between the first and second pocket of the one large popout and has metal in the center. Aggregate visible.**

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_311_item1.jpg



Florida Power
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Supplemental Report

Report No.: VT-01-311

Summary No.: RBCN-0012

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JL	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CC	Date:	12-10-01

Comments: **Item #2 (Reference Page 1 - Condition 22): Examples of ungrouted form tie holes (reference pic(s) #item2A, #item2B, #item2C following page, #item2 following page, #item2G following page). Rust stains are from roof (dome) conduit supports.**

Items #2A, #2B are examples of ungrouted form tie holes.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_311_item2a.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_311_item2b.jpg

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Supplemental Report

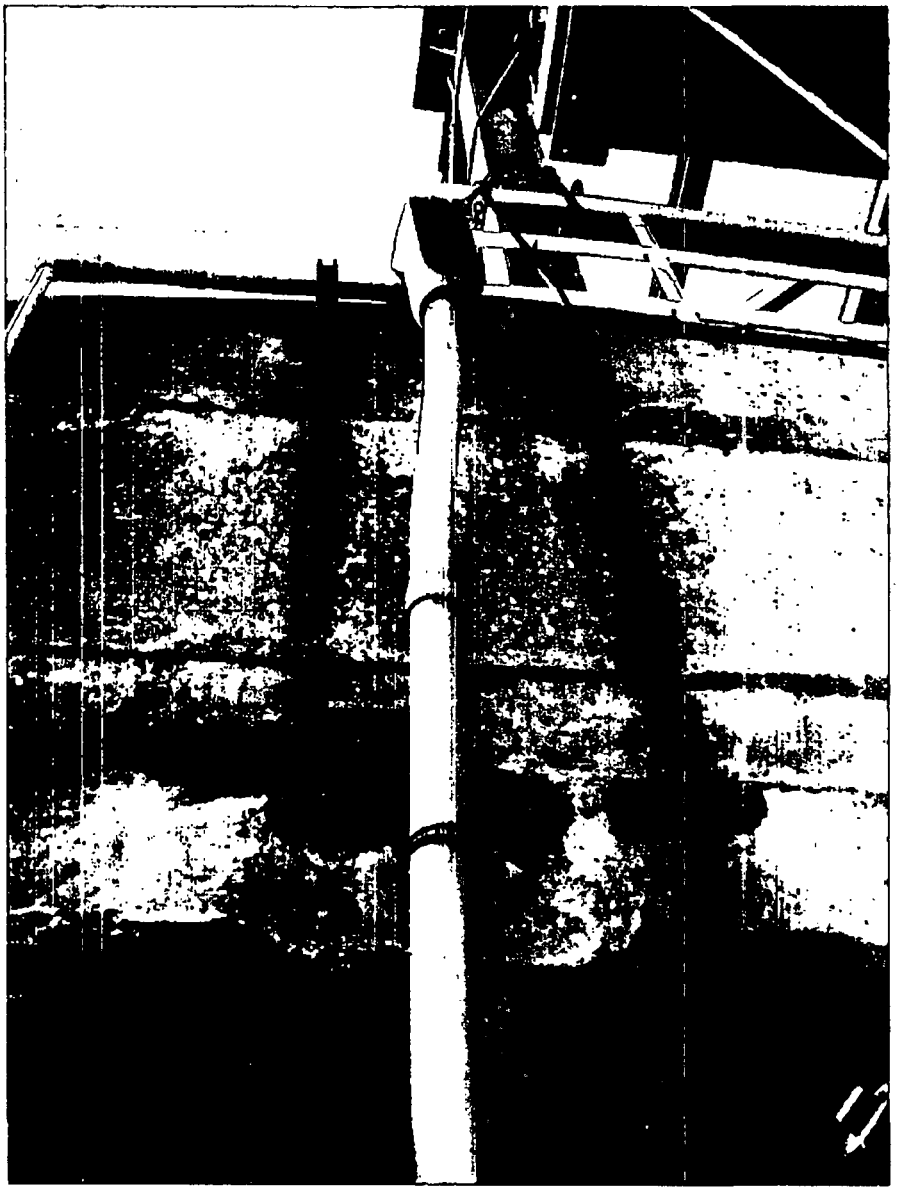
Summary No.: RBCN-0012

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Item #2 (Reference Page 1 - Condition 22): Examples of ungrouted form tie holes (reference pic(s) #item2A previous page, #item2B previous page, #item2C, #item2 following page, #item2G following page). Rust stains are from roof (dome) conduit supports.**

Item #2C is an example of ungrouted form tie holes.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_311_item2c.jpg



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Supplemental Report

Report No.: VT-01-311

Page: 6 of 6

Summary No.:	RBCN-0012						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Item #2 (Reference Page 1 - Condition 22): Examples of ungrouted form tie holes (reference pic(s) #Item2A previous page, #Item2B previous page, #Item2C previous page, #Item2, and #Item2G). Rust stains are from roof (dome) conduit supports.**

Item #2 - Item #2 and Item #2G are other examples of ungrouted form tie holes.

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_311_item2.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_311_item2g.jpg

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Visual Examination of IWL (VT-1C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0013	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-312
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 4

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6" (Buttress #1 to #2)

Drawing No.: S-425-001 (Rev. 1) Description: RBCN-0013 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0013 Items #3 and #5

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix Serial No.: TI-2856 / TI-2858 Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	__	X	__	12) Reinforcing Bar Corrosion	__	__	X	__
2) Cracking	__	__	X	__	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	__	X	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	__	__	X	15) Efflorescense	__	__	__	X
5) Water In Leakage	__	__	X	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	__	__	X	17) Voids	__	__	__	X
7) Popouts	__	__	X	__	18) Erosion	__	__	X	__
8) Deflection	__	__	X	__	19) Pitting	__	__	X	__
9) Staining	__	__	X	__	20) Abrasion	__	__	X	__
10) Discoloration	__	__	X	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	__	X	__	22) Other	__	__	__	X

Comments:
Inspections were done in daylight hours with sun up. Remote inspection required the use of binoculars
Item #3 - aggregate composition.

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level II	Signature	Date	Reviewer		Signature	Date
Brown, Jerry D.	/	Jerry D Brown	11/07/01	Paul A. Wright / Level III	/	P.A. Wright	11/12/01
Examiner	Level N/A	Signature	Date	Site Review		Signature	Date
N/A	/			Joe Lese, PE	/	Joe B. Lese	11/14/01
Other	Level N/A	Signature	Date	ANII Review		Signature	Date
Wilson, T. Rand		T. Rand Wilson	11/07/01	C. Colarte	/	Carlos T. Colarte	12-10-01

Florida Power
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Supplemental Report

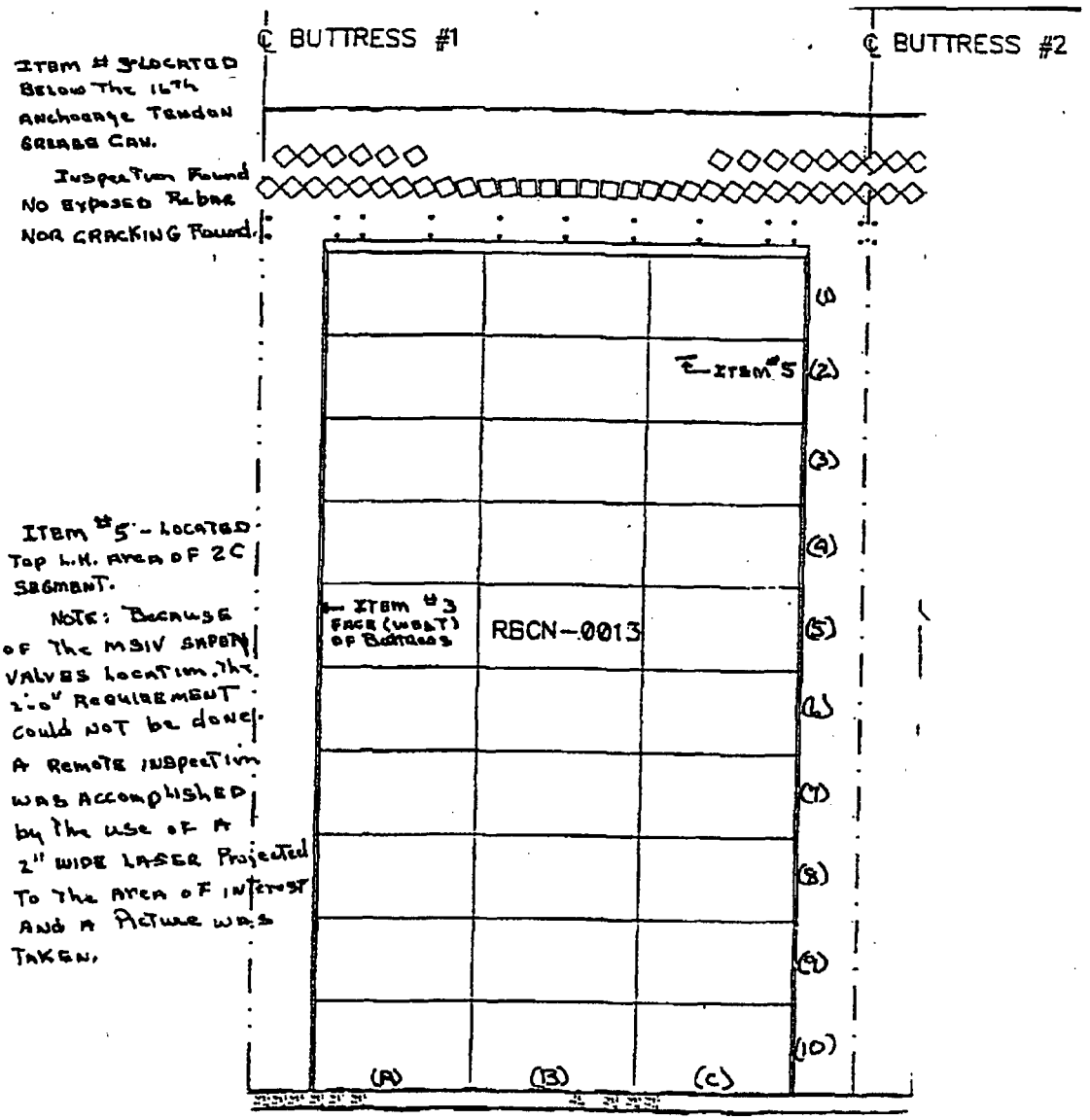
Report No.: VT-01-312

Summary No.: RBCN-0013

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_312a.jpg



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Supplemental Report

Report No.: VT-01-312

Summary No.: RBCN-0013

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: Item #3 (Reference Page 1 - Conditions 17 and 22): Located below the 16th anchorage tendon grease can. Inspection found no exposed rebar nor cracking found (reference pic #item3).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_312_Item3.jpg

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Supplemental Report

Report No.: VT-01-312

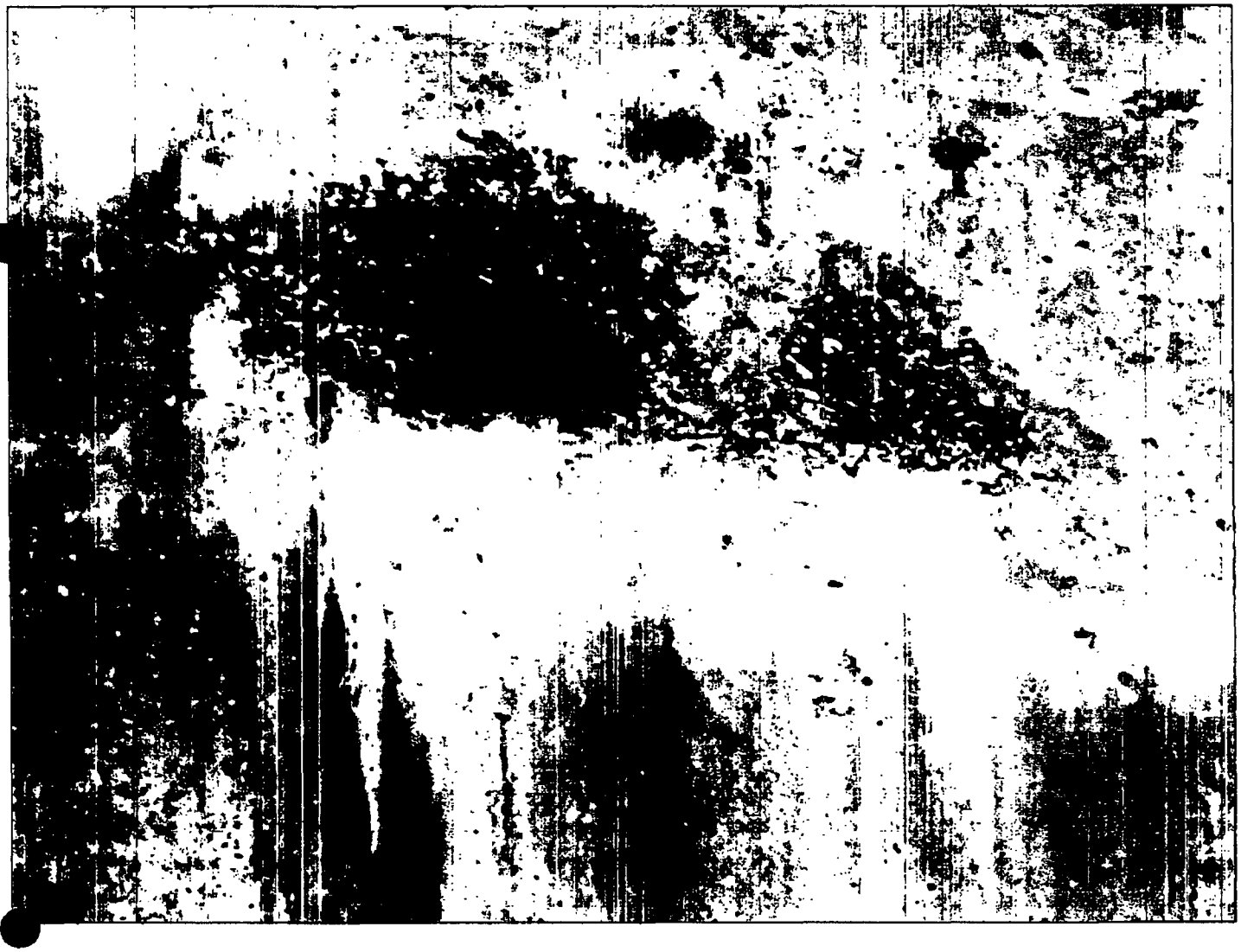
Page: 4 of 4

Summary No.: RBCN-0013

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-6-01

Comments: **Item #5 (Reference Page 1 - Conditions 4, 6, and 15): Located top L.H. Area of 2C segment. Note because of the MSIV safety valve location, the 2' 0" requirement could not be done and remote inspection was accomplished by the use of a 2" wide laser projected to the area of interest and a picture was taken (reference pic #item5).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_312_Item5.jpg



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0014	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-314
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 6

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6" (Buttress #2 to #3)

Drawing No.: S-425-001 (Rev. 1) Description: RBCN-0014 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0014 Items #2(R), #5(R), #7(R), #8(R), #9(R), #10(R), and #15(R)

Limitations: Accessibility - The MSIV relief banks prevented a direct VT-1C, a remote was used.

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix Serial No.: TI-2856 / TI-2858 Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	X	__	__	12) Reinforcing Bar Corrosion	__	__	X	__
2) Cracking	__	__	__	X	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	X	__	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	X	__	__	15) Efflorescense	__	__	X	__
5) Water In Leakage	__	X	__	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	X	__	__	17) Voids	__	__	X	__
7) Popouts	__	X	__	__	18) Erosion	__	__	X	__
8) Deflection	__	X	__	__	19) Pitting	__	__	X	__
9) Staining	__	X	__	__	20) Abrasion	__	__	X	__
10) Discoloration	__	X	__	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	X	__	__	22) Other	__	__	X	__

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner Level II Brown, Jerry D.	Signature Jerry D Brown	Date 11/08/01	Reviewer Paul A. Wright / Level III /	Signature Paul A. Wright	Date 11/12/01
Examiner Level N/A N/A /	Signature	Date	Site Review Joe Lese, PE /	Signature J. D. Lese	Date 11/14/01
Other Level N/A Wilson, T. Rand	Signature	Date 11/08/01	ANII Review C. Colarte /	Signature Carlos A. Colarte	Date 12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

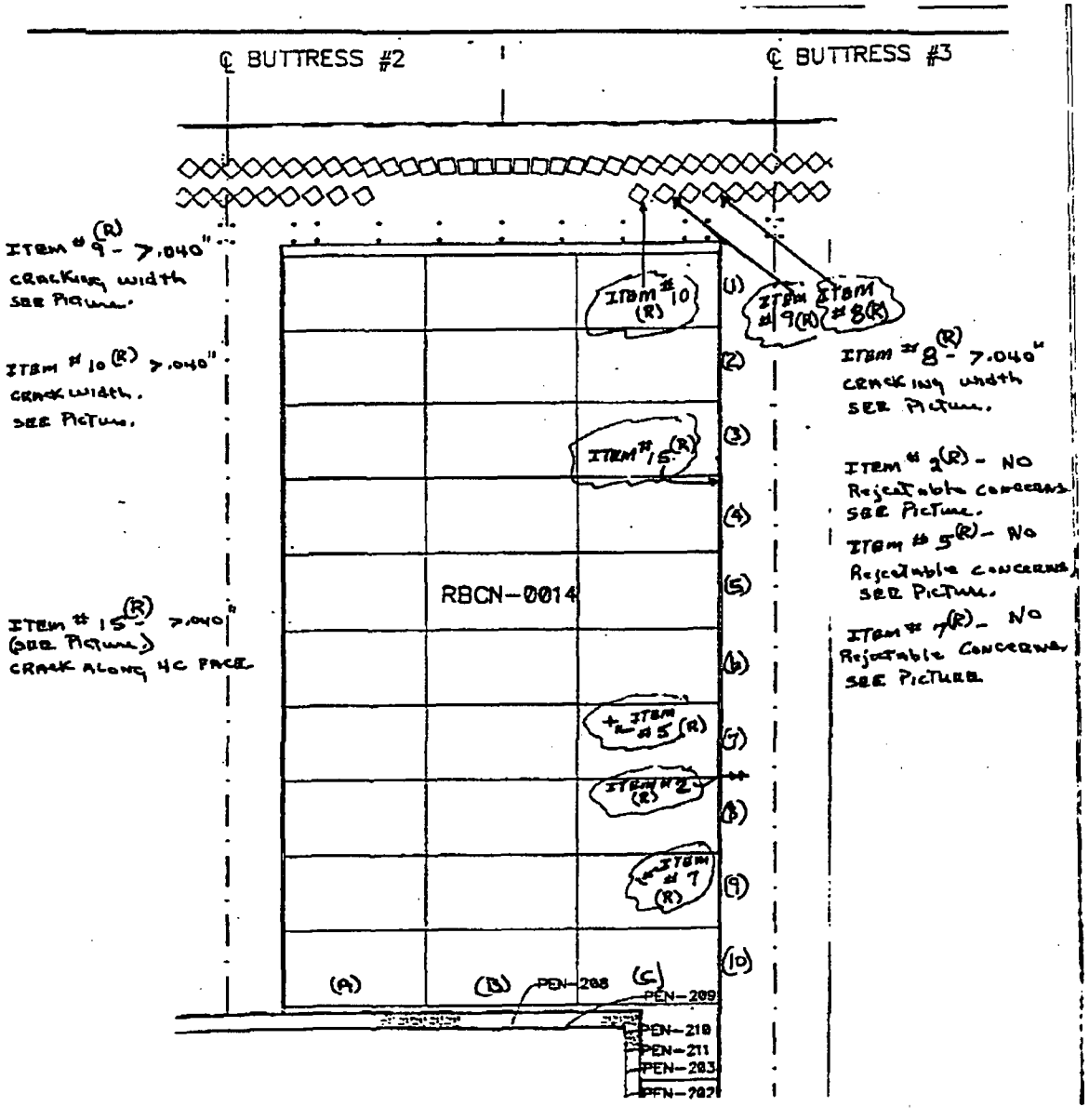
Report No.: VT-01-314

Summary No.: RBCN-0014

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314a.jpg



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Supplemental Report

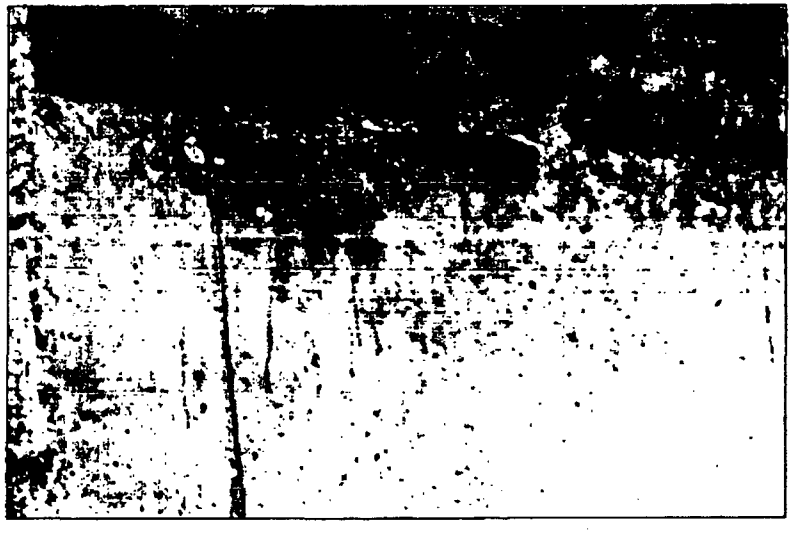
Summary No.: RBCN-0014

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

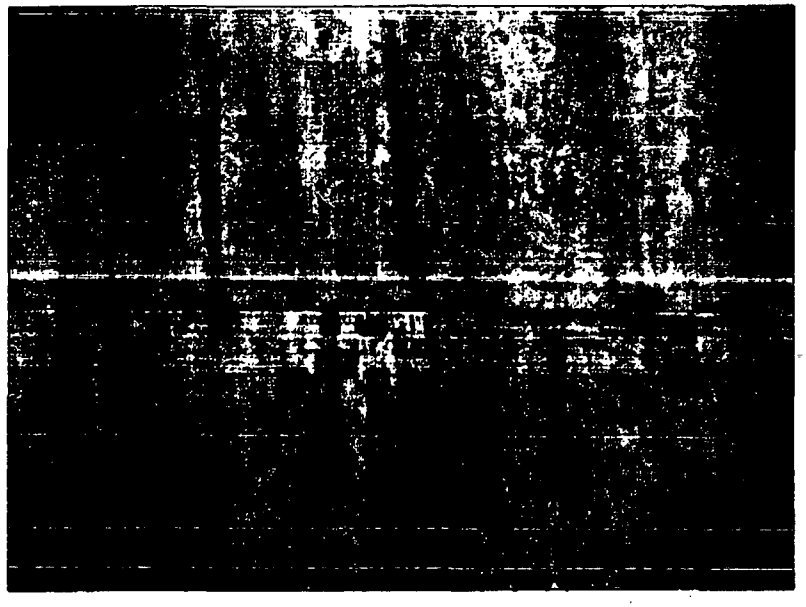
Comments: Item #2(R) (Reference Page 1 - Condition 2): No rejectable concerns (reference pic #item2).

Item #5(R) (Reference Page 1 - Condition 2): No rejectable concerns (reference pic #item5).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314_item2.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314_item5.jpg



Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-314

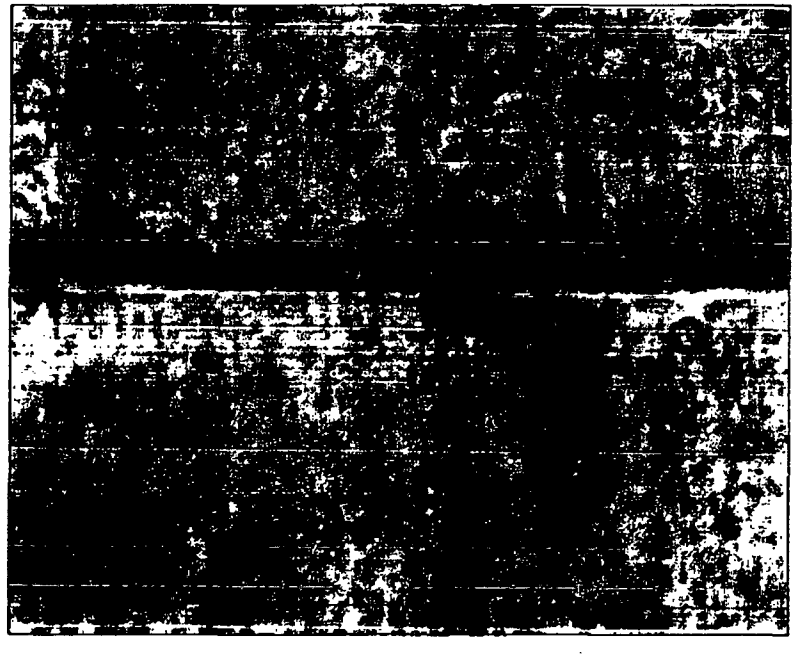
Summary No.: RBCN-0014

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: **Item #7(R) (Reference Page 1 - Condition 2): No rejectable concerns (reference pic #item7).**

Item #8(R) (Reference Page 1 - Condition 2): > .040" cracking width (reference pic #item8a).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314_item7.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314_item8a.jpg

Florida Power
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Supplemental Report

Summary No.: RBCN-0014

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Item #9(R) (Reference Page 1 - Condition 2): > .040" cracking width (reference pic #item9).

Item #10(R) (Reference Page 1 - Condition 2): > .040" cracking width (reference pic #item10b).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314_item9.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314_item10b.jpg

Florida Power
A Progress Energy Company

Supplemental Report

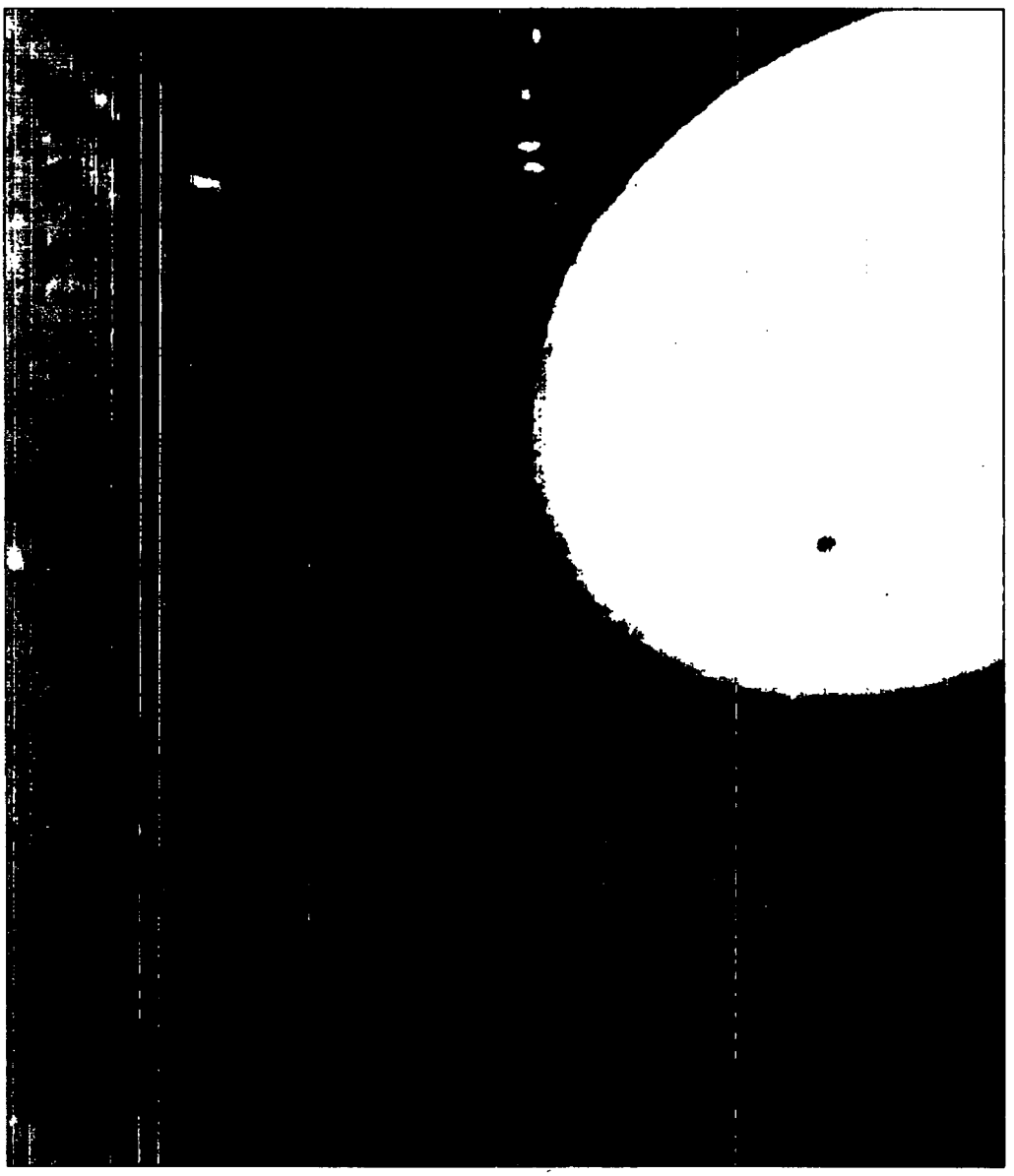
Report No.: VT-01-314

Summary No.: RBCN-0014

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: **Item #15(R) (Reference Page 1 - Condition 2): > .040" cracking width along 4C face (reference pic #item15b).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_314_item15b.jpg



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit:	CRNP / 3	Procedure:	VT-N18 / VA-N19	Outage No.:	N/A
Summary No.:	RBCN-0015	Procedure Rev/FC:	1 / 0 / N/A	Report No.:	VT-01-313
Workscope:	RFO12 / IWL	Work Order No.:	368426	Page:	1 of 5

Code: ASME 1992 Ed. Through 92 Ad. Code Cat.: L-A / L1.11 Location: EL. 119' to EL. 267' 6" (Buttress #3 to #4)

Drawing No.: S-425-001 (Rev. 1) Description: RBCN-0015 Direct and Remote (R) Inspection

System ID: Concrete Containment

Component ID: RBCN-0015 Items #5(R), #8, #10(R), #12(R), #13(R), and #16

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix Serial No.: TI-2856 / TI-2858 Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	__	__	X	12) Reinforcing Bar Corrosion	__	__	X	__
2) Cracking	__	__	X	__	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	__	X	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	__	X	__	15) Efflorescense	__	__	X	__
5) Water In Leakage	__	__	X	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	__	X	__	17) Voids	__	__	X	__
7) Popouts	__	__	X	__	18) Erosion	__	__	X	__
8) Deflection	__	__	X	__	19) Pitting	__	__	X	__
9) Staining	__	__	X	__	20) Abrasion	__	__	X	__
10) Discoloration	__	__	X	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	__	X	__	22) Other	__	__	__	X

Comments:
Inspections were done in daylight hours with sun up. Remote inspections required the use of binoculars, 2 laser beams, and a camera (as demonstrated to the ANII for resolution and the 2" space between the laser beams).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry Brown	11/01/01	Paul A. Wright / Level III /	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	Joe Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A	T. Rand Wilson	11/01/01	C. Colarte /	Carlos A. Colarte	12/10-01

Florida Power
A Progress Energy Company

Supplemental Report

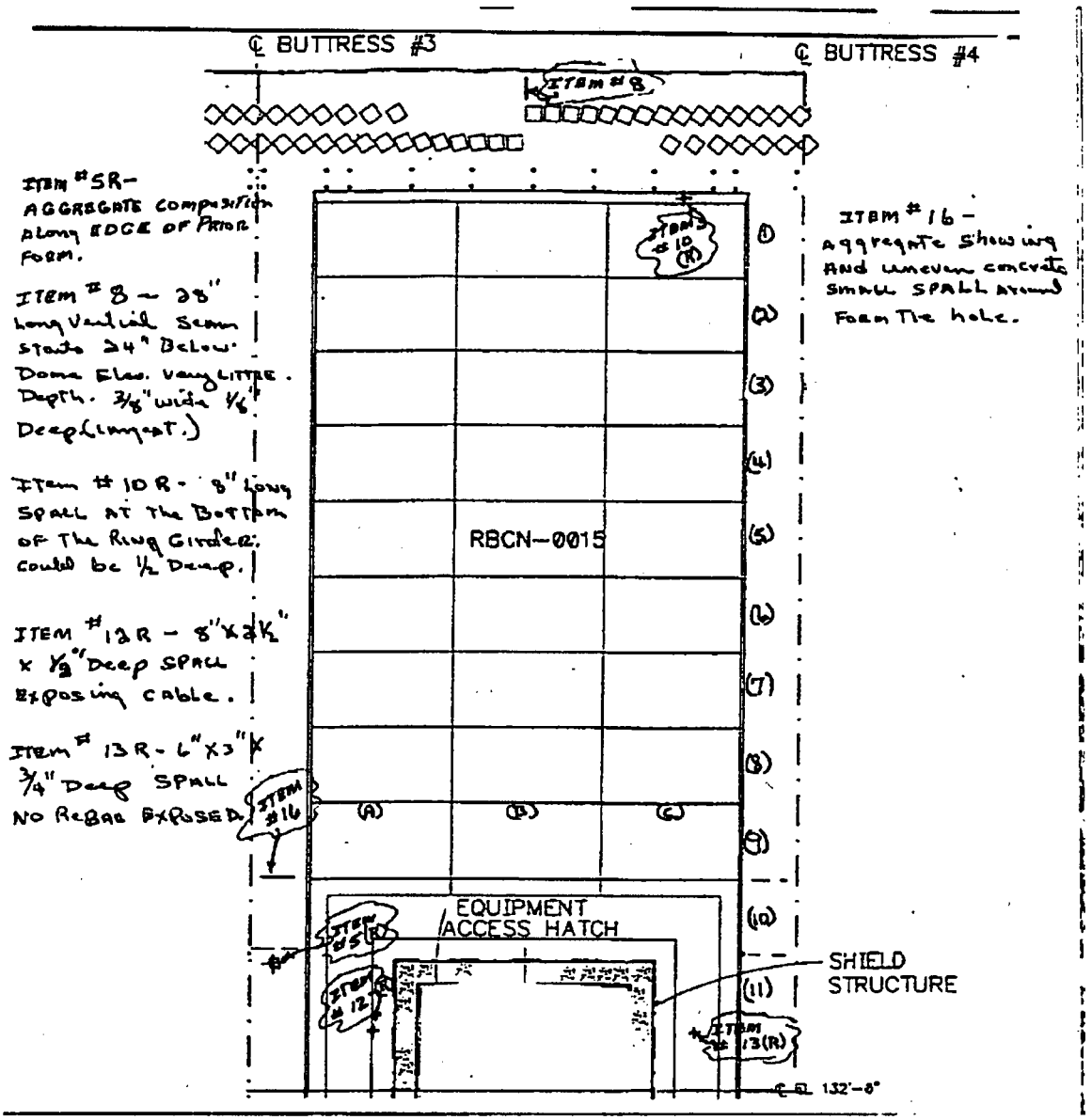
Report No.: VT-01-313

Summary No.: RBCN-0015

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	11-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_313a.jpg



Florida Power
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Supplemental Report

Summary No.: RBCN-0015

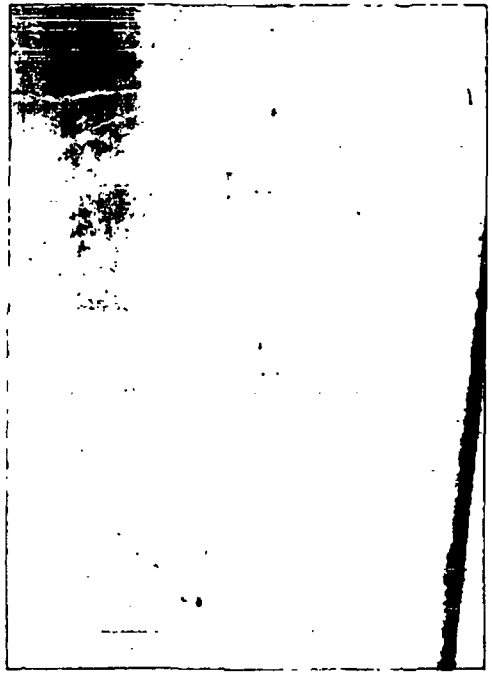
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: **Item #5(R) (Reference Page 1 - Condition 22): Aggregate composition along edge of prior form (reference pic #item5).**

Item #8 (Reference Page 1 - Condition 2 & 22): Approx. 28" long vertical seam starts 24" below dome elevation. Very little depth, 3/8" wide 1/8" deep (largest) (reference pic #item8).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_313_item5.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_313_item8.jpg



Florida Power
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Supplemental Report

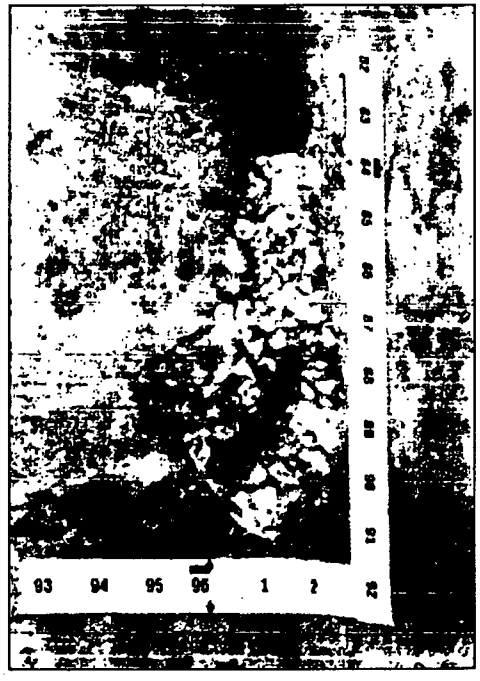
Summary No.:	RBCN-0015						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10-01

Comments: Item #10(R) (Reference Page 1 - Condition 1 & 22): 8" long spall at the bottom of the ring girder. Could be 1/2" deep (reference pic #item10).

Item #12(R) (Reference Page 1 - Condition 1): 8" x 2 1/2" x 1/2" deep spall exposing cable (reference pic #item10).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_313_item10.jpg

L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_313_item12.jpg



Florida Power
A Progress Energy Company

Supplemental Report

Report No.: VT-01-313

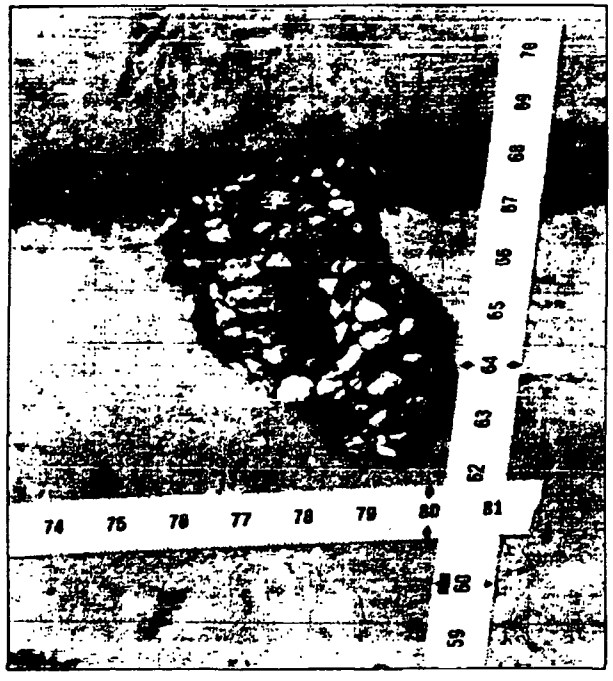
Summary No.: RBCN-0015

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/0-01

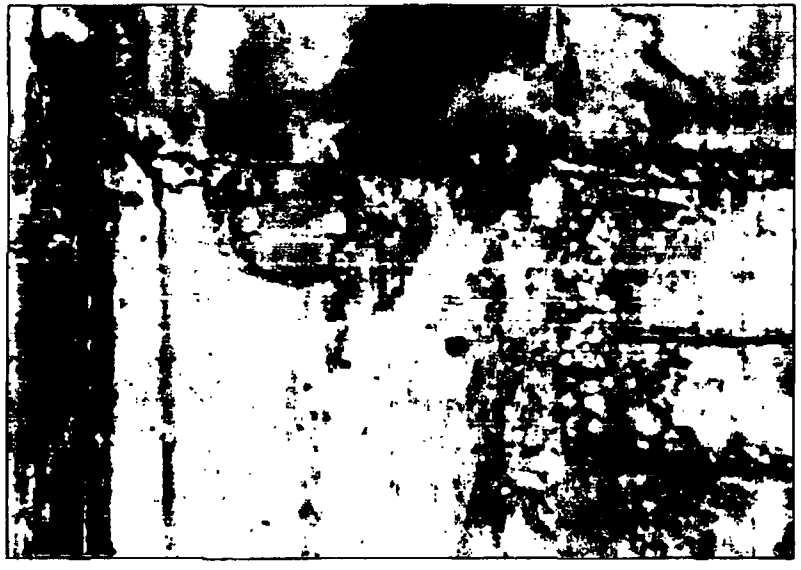
Comments: Item #13(R) (Reference Page 1 - Condition 1): 6" x 3" x 3/4" deep spall. No rebar exposed (reference pic #item13).

Item #16 (Reference Page 1 - Condition 1): Aggregate showing uneven concrete, and small spall around form tie hole (reference pic #item16).

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_313_item13.jpg



L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_313_item16.jpg



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0016 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-317

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 6

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: Containment Concrete Dome

Drawing No.: S-425-003 (Rev. 1) | Description: RBCN-0016 Direct Inspection

System ID: Concrete Containment

Component ID: RBCN-0016 Items (c) #9 and #99 / Items (d) #1 and #20

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found | Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix | Serial No.: TI-2856 / TI-2858 | Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas __ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling	__	__	__	X	12) Reinforcing Bar Corrosion	__	__	X	__
2) Cracking	__	__	X	__	13) Rust Bleeding	__	__	X	__
3) Delaminations	__	__	X	__	14) Tendon Surface Cracking	__	__	X	__
4) Honeycomb	__	__	X	__	15) Efflorescense	__	__	X	__
5) Water In Leakage	__	__	X	__	16) Cosmetic Patch Bond	__	__	X	__
6) Chemical Leaching	__	__	X	__	17) Voids	__	__	X	__
7) Popouts	__	__	X	__	18) Erosion	__	__	X	__
8) Deflection	__	__	X	__	19) Pitting	__	__	X	__
9) Staining	__	__	X	__	20) Abrasion	__	__	X	__
10) Discoloration	__	__	X	__	21) Segregation	__	__	X	__
11) Vibration Damage	__	__	X	__	22) Other	__	__	__	X

Comments:
Inspections were done in daylight hours with sun up.

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II /	Jerry D Brown	11/2/01	Paul A. Wright / Level III /	P.A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A /			Joe Lese, PE /	J.C. Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A	T. Rand Wilson	11/2/01	C. Colarte /	Carlos Colarte	11/20/01

Florida Power
A Progress Energy Company

Supplemental Report

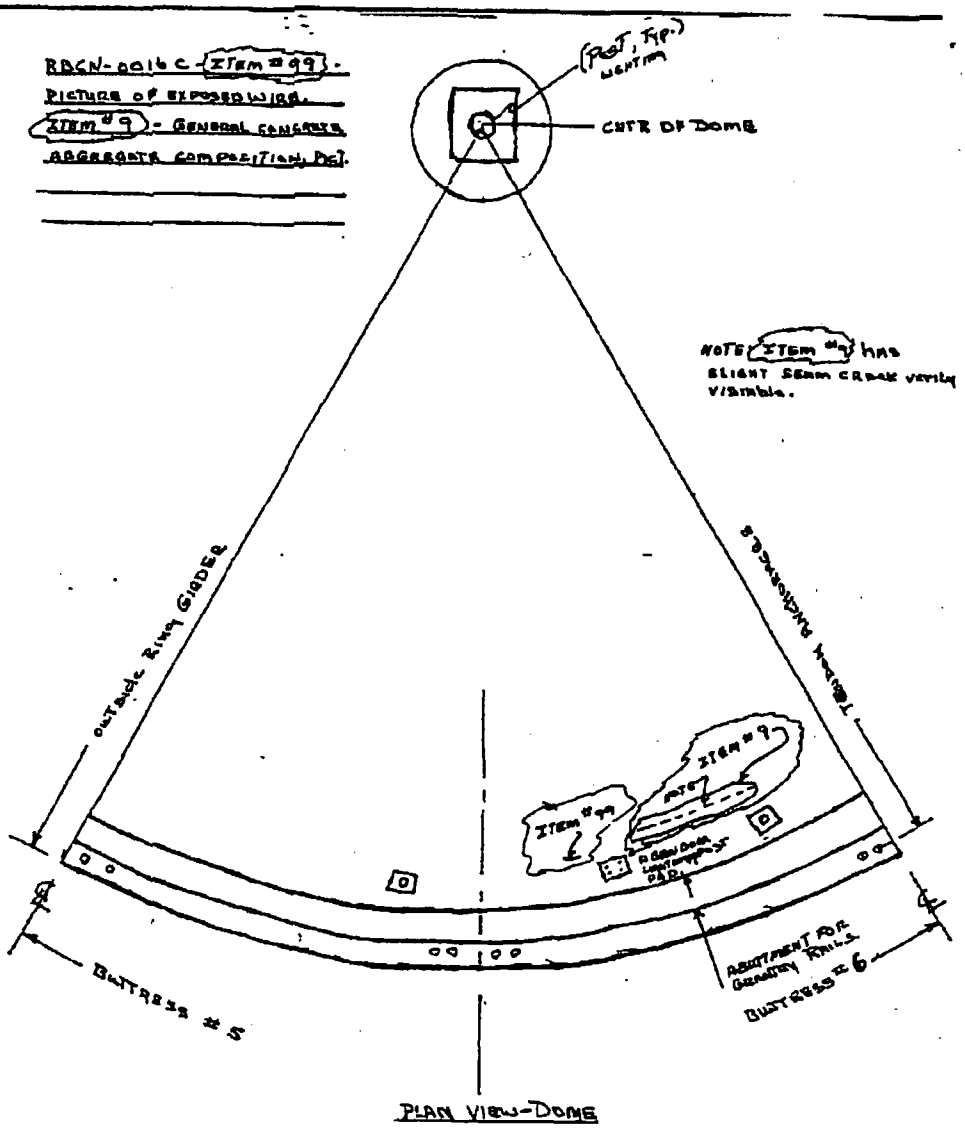
Report No.: VT-01-317

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: **Approximate Photo Locations RBCN-0016 Items (c) #9 and #99**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_317a.jpg



Florida Power
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Supplemental Report

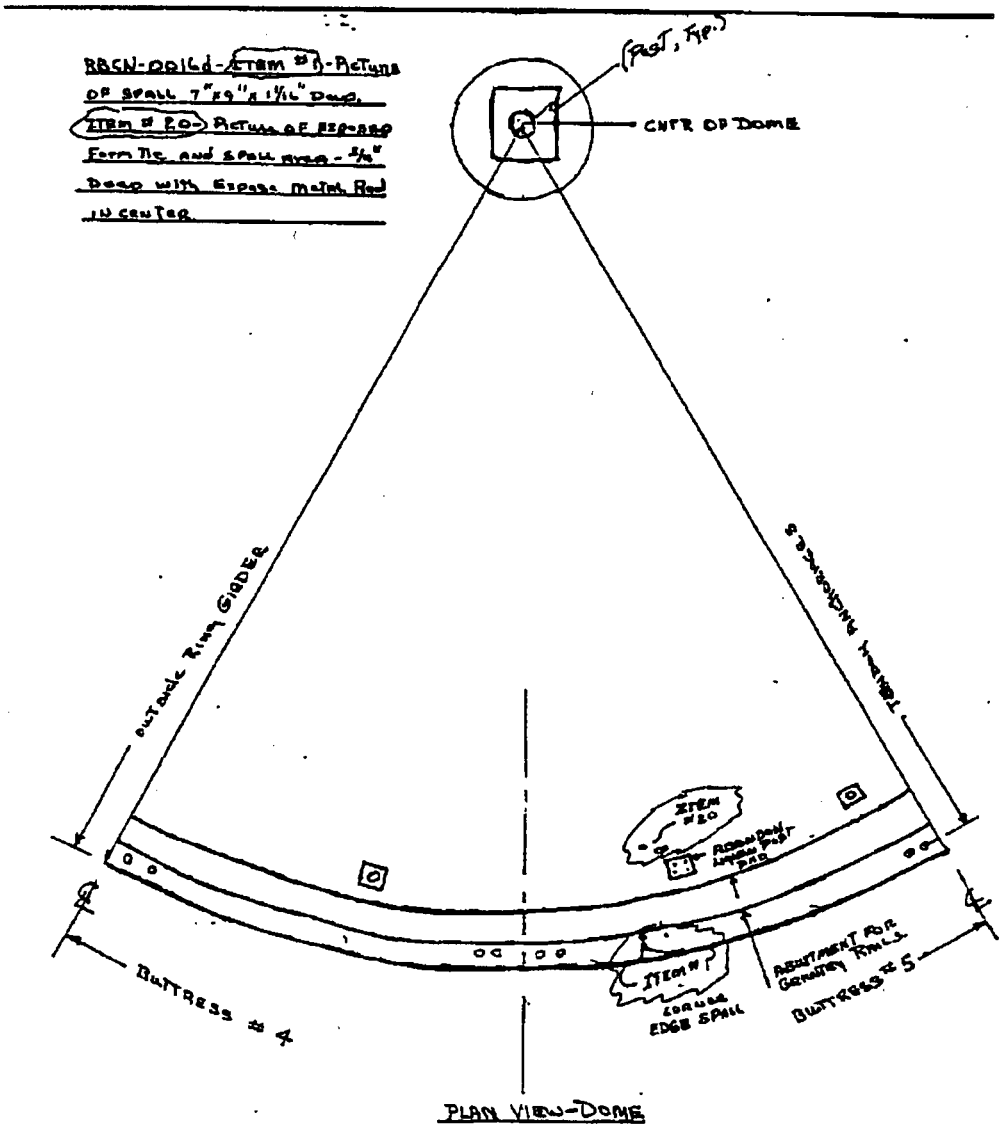
Report No.: VT-01-317

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10/01

Comments: Approximate Photo Locations RBCN-0016 Items (d) #1 and #20

Sketch or Photo: L:\Shared\Sldata\Data\RFO12_SUPPS\VT_01_317b.jpg



Florida Power
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Supplemental Report

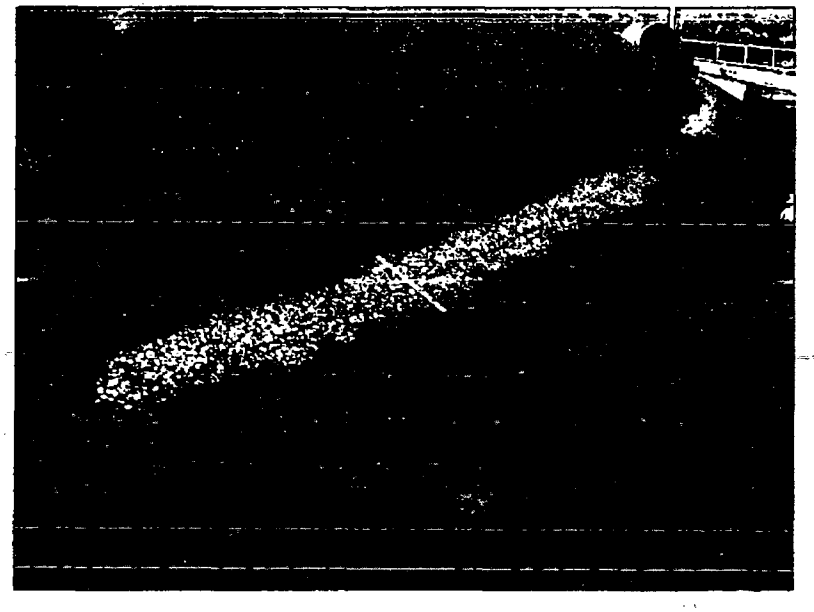
Summary No.: RBCN-0016

Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

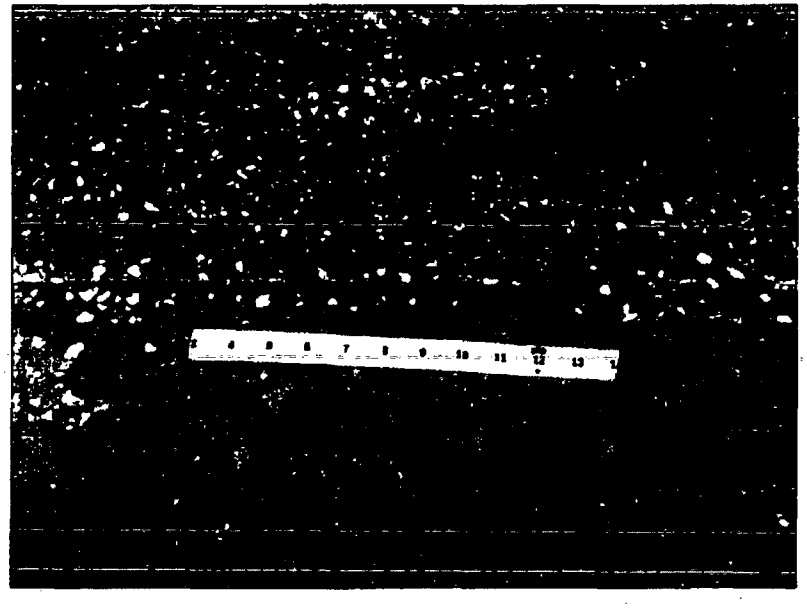
Comments: **Item c #9 (Reference Page 1 - Condition 22): General concrete aggregate composition (reference pic #item9).**

Item c #99 (Reference Page 1 - Condition 22): Exposed wire (reference pic #item99).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_317_item9.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_317_item99.jpg



Florida Power
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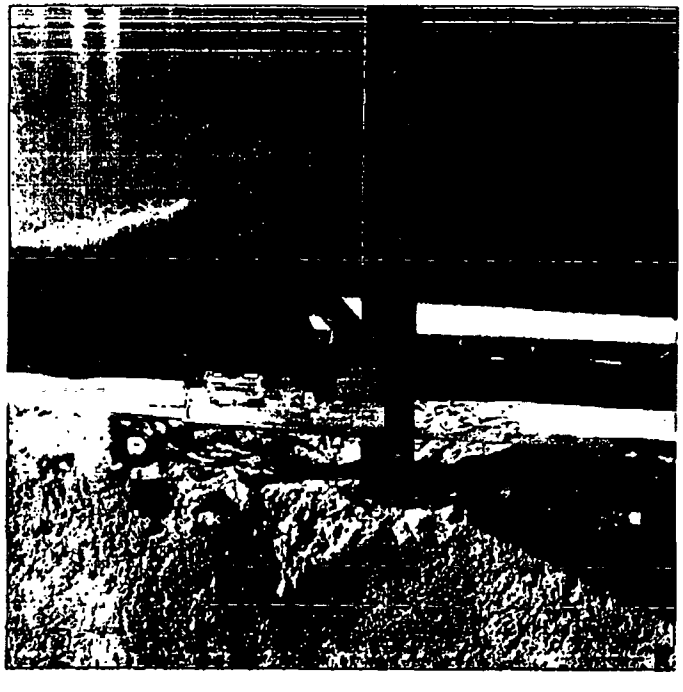
Supplemental Report

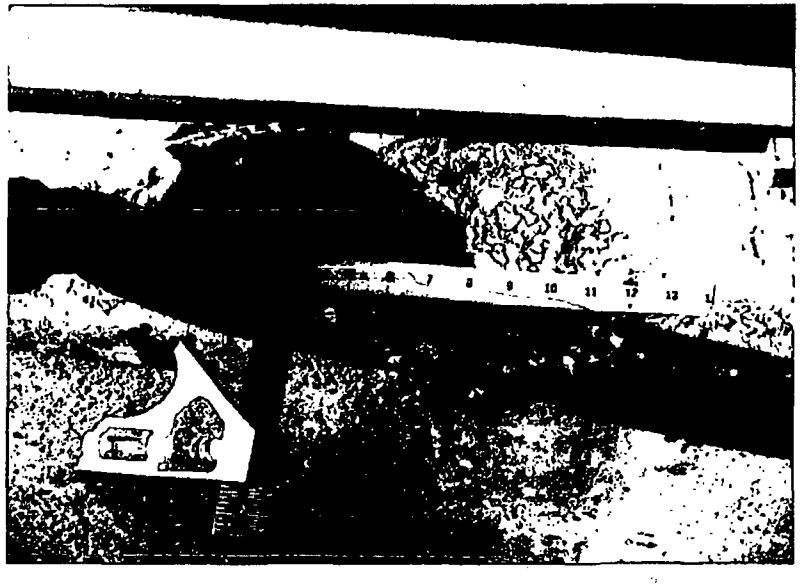
Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12/10-01

Comments: **Item d #1 (Reference Page 1 - Condition 1): Spall 7" x 9" x 1 1/16" deep (reference pic(s) #Item1a and #Item1b).**

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_317_Item1a.jpg



L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_317_item1b.jpg



Florida Power
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Supplemental Report

Report No.: VT-01-317

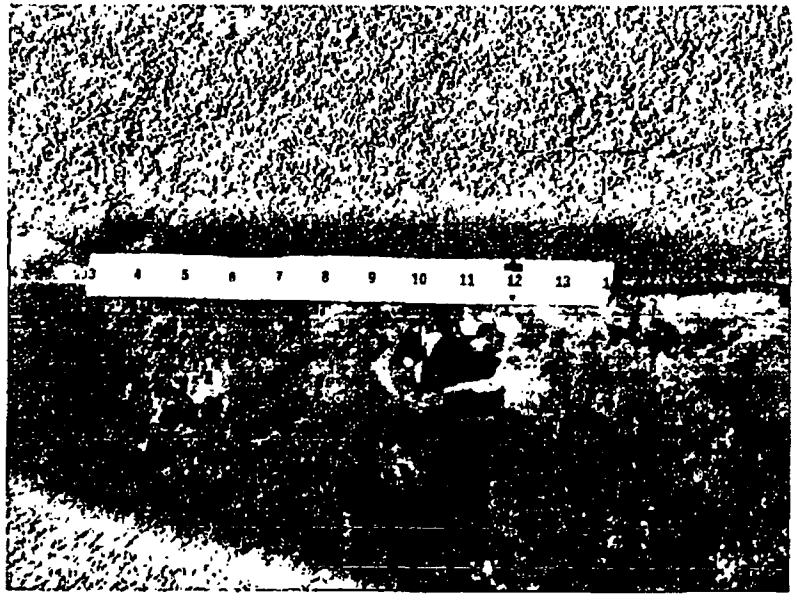
Page: 6 of 6

Summary No.: RBCN-0016

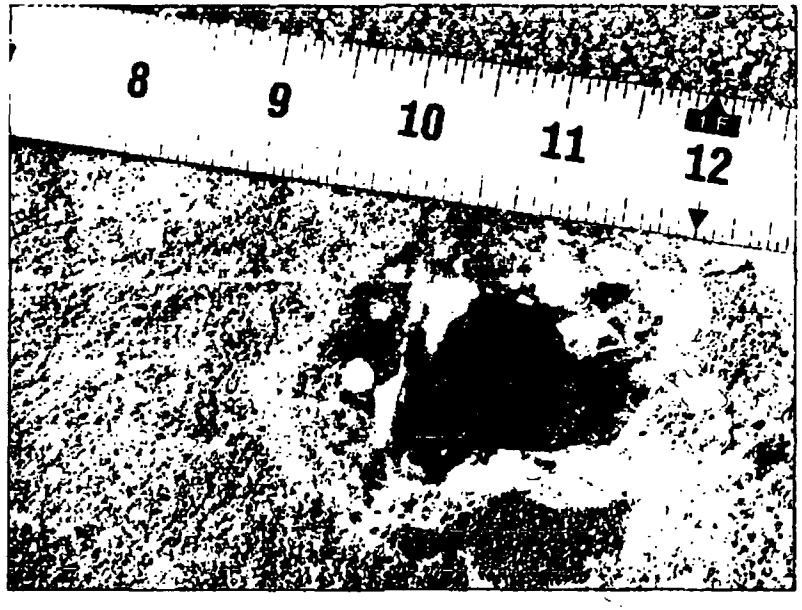
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III PAW	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE JDL	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte CLC	Date:	12/10-01

Comments: **Item d #20 (Reference Page 1 - Condition 1): Exposed form tie and spall area, 3/4" deep with exposed metal rod in center (reference pic(s) #item20a and #item20b).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_317_item20a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_317_item20b.jpg



Florida Power
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Visual Examination of IWL (VT-1C)

Site/Unit: CRNP / 3 | Procedure: VT-N18 / VA-N19 | Outage No.: N/A

Summary No.: RBCN-0016 | Procedure Rev/FC: 1 / 0 / N/A | Report No.: VT-01-316

Workscope: RFO12 / IWL | Work Order No.: 368426 | Page: 1 of 5

Code: ASME 1992 Ed. Through 92 Ad. | Code Cat.: L-A / L1.11 | Location: Containment Concrete Dome

Drawing No.: S-425-003 (Rev. 1) | Description: RBCN-0016 Direct Inspection

System ID: Concrete Containment

Component ID: RBCN-0016 Items (b) #1, #2, and #7

Limitations: Accessibility

General ○ VT-1C ◉ VT-3C ○ VT-1 ○ VT-3 ○ Resolution: 0.044" (2' 0") / 1/32" Neutral Gray Card

Surface Condition: As Found | Visual Equipment/Aids: 1/32" Scale, Card, Flashlight, Filler Gauge

Inspected From: Outside Containment ◉ Both ○

Light Meter Mfg.: Tektronix | Serial No.: TI-2856 / TI-2858 | Illumination: > 250 Ft./CDS

Light Verification Times: 0800 / 1600 | Cal In ◉ Cal Out ◉

Vent System Or Containment Surfaces

Coated Areas ___ | Non-Coated Areas X

	Sat	Unsat	N/A	See Comments		Sat	Unsat	N/A	See Comments
1) Spalling			X		12) Reinforcing Bar Corrosion			X	
2) Cracking				X	13) Rust Bleeding			X	
3) Delaminations				X	14) Tendon Surface Cracking			X	
4) Honeycomb			X		15) Efflorescense			X	
5) Water In Leakage			X		16) Cosmetic Patch Bond				X
6) Chemical Leaching			X		17) Voids			X	
7) Popouts			X		18) Erosion			X	
8) Deflection			X		19) Pitting			X	
9) Staining			X		20) Abrasion			X	
10) Discoloration			X		21) Segregation			X	
11) Vibration Damage			X		22) Other				X

Comments:
Inspections were done in daylight hours with sun up. Prior cosmetic patch repairs are cracking, delaminating and in general failing. This condition is prevalent throughout the dome area (reference Supplement Report - Page 3 for example).

Results: Sat ☑ Unsat ☐

Percent Of Coverage Obtained > 90%: Yes | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
Brown, Jerry D.	II	Jerry Brown	11/2/01	Paul A. Wright / Level III	Paul A. Wright	11/12/01
Examiner	Level	Signature	Date	Site Review	Signature	Date
N/A	N/A			Joe Lese, PE	Joe C. Lese	11/14/01
Other	Level	Signature	Date	ANII Review	Signature	Date
Wilson, T. Rand	N/A	T. Rand Wilson	11/2/01	C. Colarte	Carlos A. Colarte	12-10-01

Florida Power
A Progress Energy Company

Supplemental Report

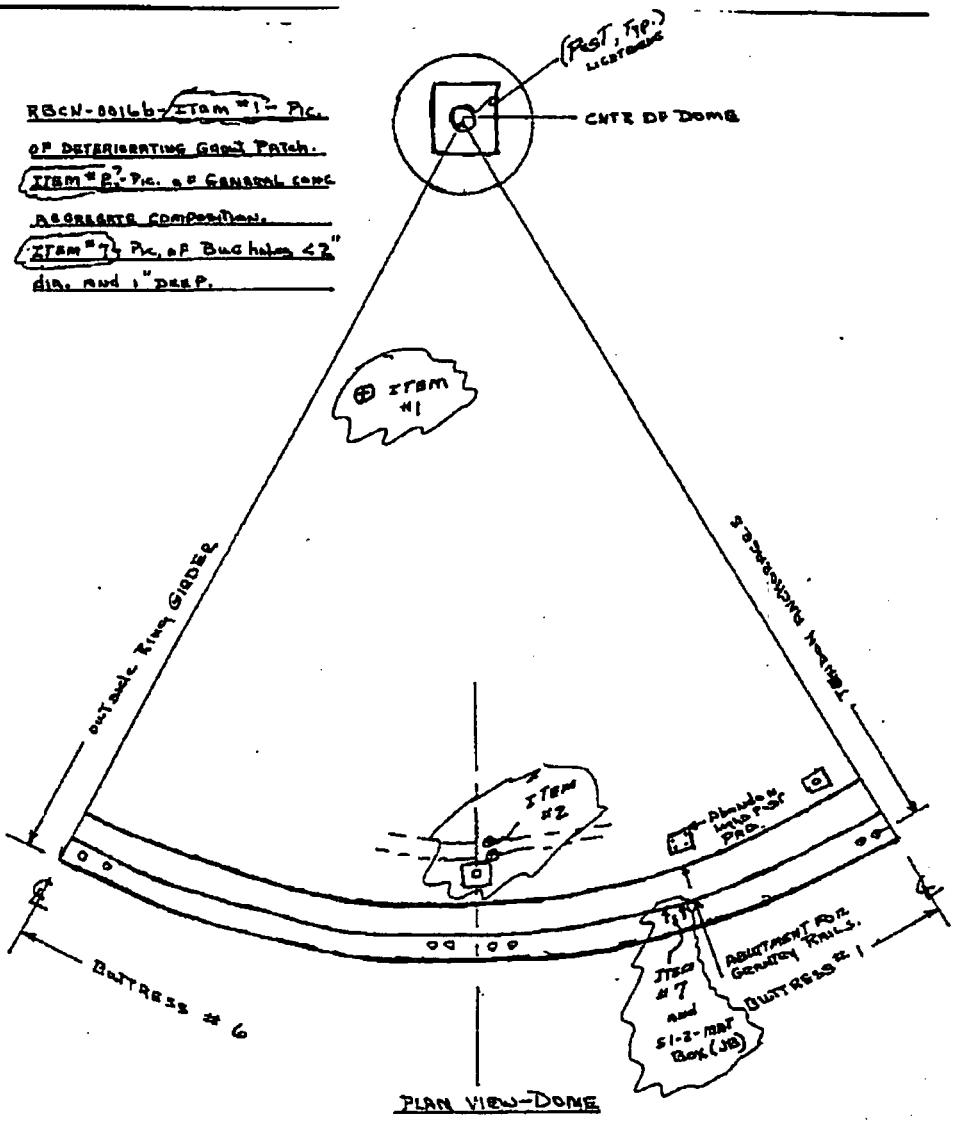
Report No.: VT-01-316

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Approximate Photo Locations**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_316a.jpg



Florida Power
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Supplemental Report

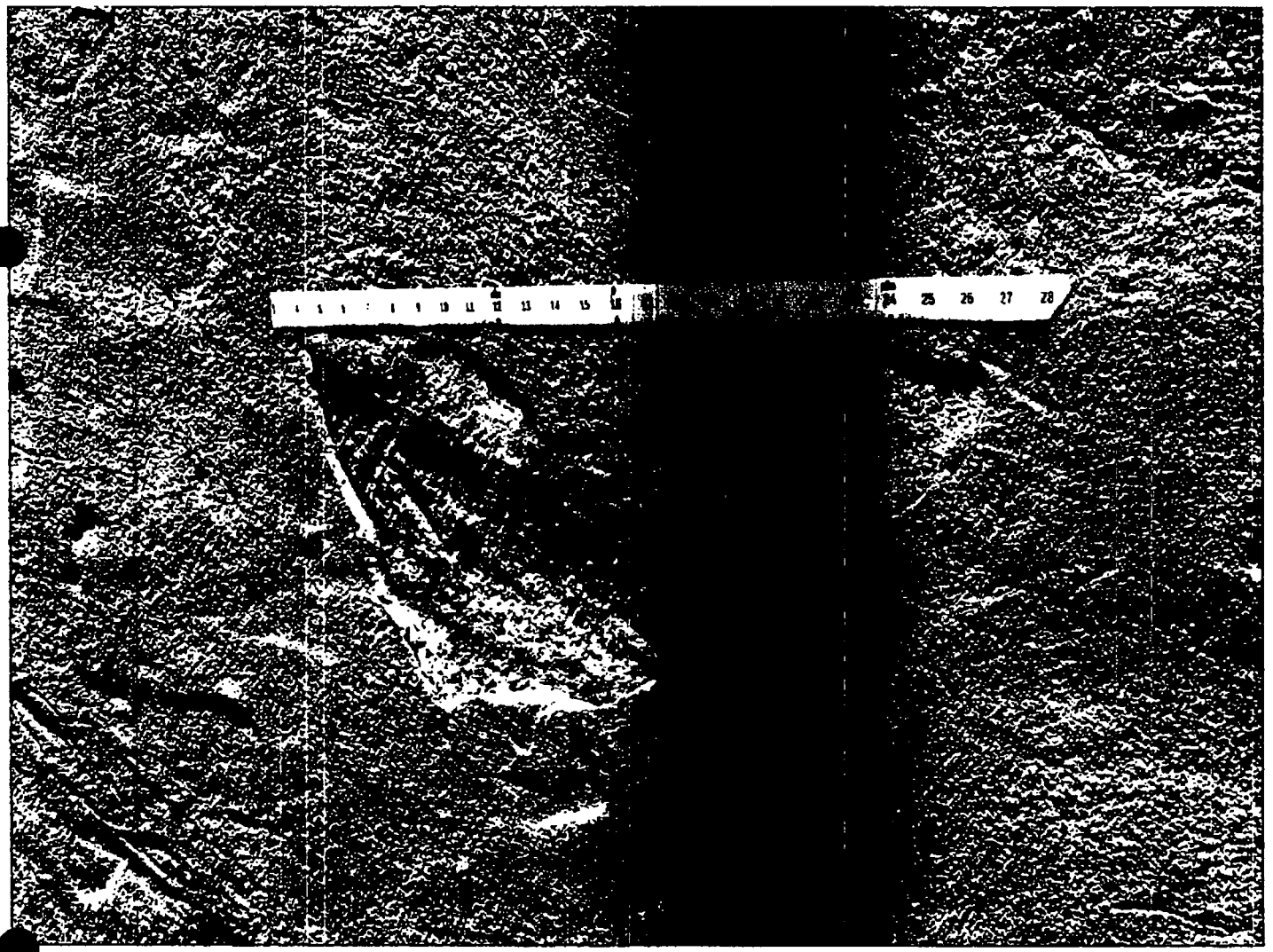
Report No.: VT-01-316

Summary No.: RBCN-0016

Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Item b #1 (Reference Page 1 - Conditions 2, 3, and 16): Deteriorating grout patch (reference pic #item1b).**

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_316_item1b.jpg



Florida Power
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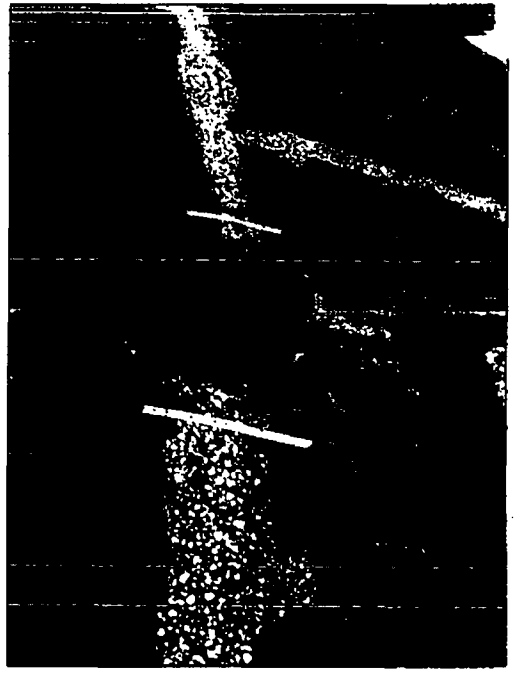
Supplemental Report

Summary No.: RBCN-0016

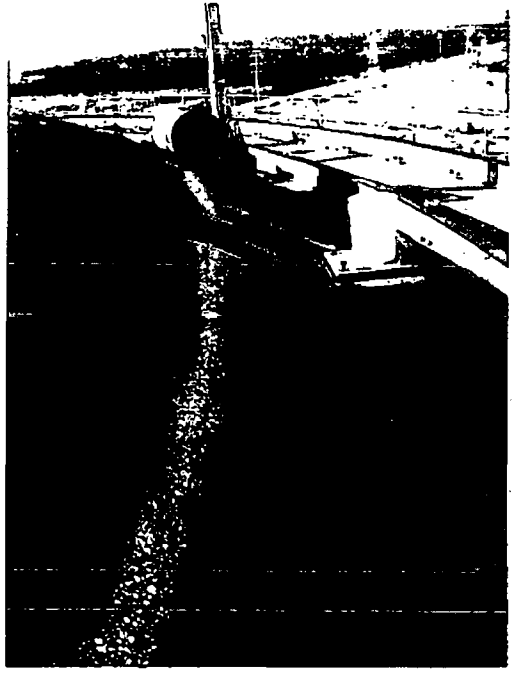
Examiner:	Brown, Jerry D. JDB	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: **Item b #2 (Reference Page 1 - Condition 2, 3 & 22): General concrete aggregate composition (reference pic(s) #item2a and #item2b).**

Sketch or Photo: L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_316_item2a.jpg



L:\Shared\ISIdata\Data\RFO12_SUPPS\VT_01_316_item2b.jpg



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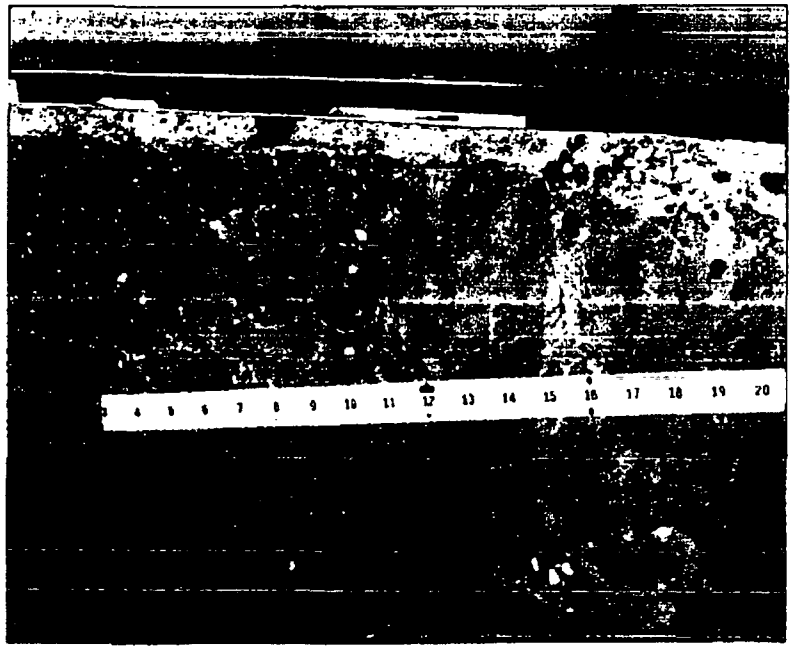
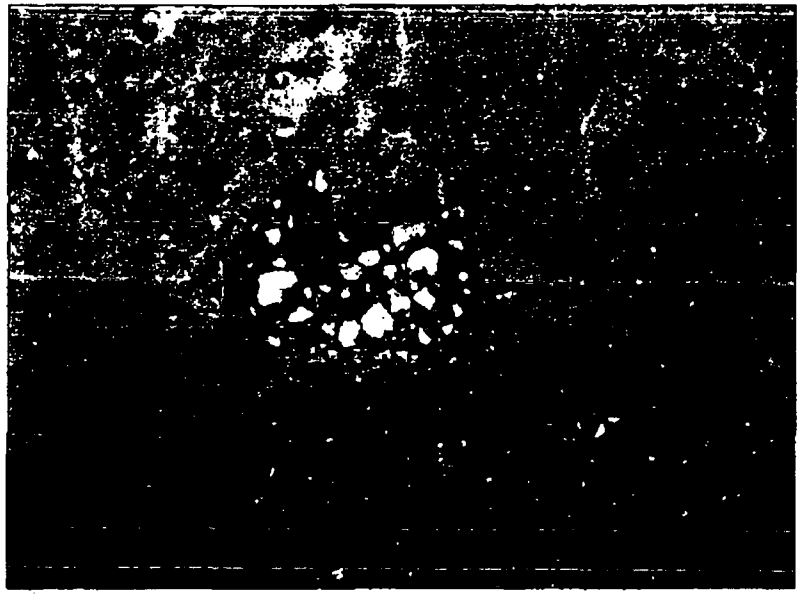
Supplemental Report

Report No.: VT-01-316

Summary No.:	RBCN-0016						
Examiner:	Brown, Jerry D.	Level:	II	Reviewer:	Paul A. Wright / Level III	Date:	11/12/01
Examiner:	N/A	Level:	N/A	Site Review:	Joe Lese, PE	Date:	11/14/01
Other:	Wilson, T. Rand	Level:	N/A	ANII Review:	C. Colarte	Date:	12-10-01

Comments: Item b #7 (Reference Page 1 - Condition 22): Bugholes < 2" diameter and 1" deep (reference pic(s) #Item7a and #Item7b).

Sketch or Photo: L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_316_Item7a.jpg



L:\Shared\SIdata\Data\RFO12_SUPPS\VT_01_316_Item7b.jpg