

# PITTSBURGH TESTING LABORATORY

PITTSBURGH, PA.

Order No. TA-7732

Supplier's Delivery

Serial No. 02427

**REPORTED TO:** FLORIDA POWER CORP.  
**PROJECT:** CRYSTAL RIVER PLANT UNIT NO. 3  
**Concrete Supplier:** West Coast Concrete, Inc.  
**Arch-Engineer:** Gilbert Assoc., Inc.  
**General Contractor:** J. A. Jones

Date 2-16-73 Time Loaded 9:55 Class om s-rod Mass  Other   
Truck No. 147 Load No. 1 Cu. Yds. 6 Counter to 0   
Cum. Cu. Yds. 6 °F Moisture: F.A. 3.5 % 231 Lbs; C.A. 20 % 216 Lbs.

	Design S.S.D. Wt.	Adj. Batch Wt.	
Cement (Type <u>P</u> )	<u>4092</u>	<u>4080</u>	
C.A. (Size <u>67</u> ) (Size _____)	<u>10900</u>	<u>10980</u>	
F.A.	<u>6600</u>	<u>6840</u>	
Daratard HCF	<u>126</u>	<u>126</u>	
Darex AEA	<u>30</u>	<u>30</u>	
Water, Gals. <u>195</u>	<u>1656</u> Total	<u>1014</u>	Added
Ice		<u>200</u> Lbs.	Gals.
Total Moisture		<u>447</u> Lbs.	Gals.
Total Water		<u>1661</u>	Gals.

Rev. at Mixing Speed: Start 0 Finish 70 Diff. 70 (100 Max.)

Signature of Batch Plant Inspector: Bill Starling

Portion of Structure Where Placed: 712 RB

Time of Arr. 9:18 Total Rev. 187 (300 Max.)

Time Placement Comp. 9:28 Elapsed Time 53 (1 1/2 Hr. Max.)

Ambient Temp. 46 °F Concrete Temp. 52 °F Slump 5 (1-4")

Remarks: Cylinder No's. Air %  
710

Water Added in Field: \_\_\_\_\_ Gal./Cu. Yd.

Rev. Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Difference: \_\_\_\_\_ (30 Min.)

Remarks: Rejected Overslump  
field 140.6

Field Inspectors Signature: [Signature]

01110

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Order No. TA-7732

Supplier's Delivery

Serial No. 02428

**REPORTED TO:** FLORIDA POWER CORP.  
**PROJECT:** CRYSTAL RIVER PLANT UNIT NO. 3  
**Concrete Supplier:** West Coast Concrete, Inc.  
**Arch-Engineer:** Gilbert Assoc., Inc.  
**General Contractor:** J. A. Jones

Date 7-16-73 Time Loaded 9<sup>08</sup> Class 4005-000 Mass  Other   
Track No. 154 Load No. 2 Cu. Yds. 6 Counter to 0   
Cum. Cu. Yds. 12 °F Moisture: F.A. 3.5 % 231 Lbs. C.A. 2.5 % 270 Lbs.

Design S.S.D. Wt.

Adj. Batch Wt.

Cement (Type) <u>4</u>	<u>4092</u>	<u>4080</u>	
C.A. (Size <u>67</u> )	<u>10800</u>	<u>11100</u>	<u>825</u>
(Size _____)			
F.A.	<u>6600</u>	<u>6810</u>	
Darostat HCF	<u>126</u>	<u>126</u>	
Darex AEA	<u>30</u>	<u>30</u>	<u>825</u>
Water, Gal. <u>145</u>	<u>1656</u> Total	<u>954</u>	Added
Ice		<u>200</u> Lbs.	Gals.
Total Moisture		<u>501</u> Lbs.	Gals.
Total Water		<u>1655</u>	Gals.

Rev. at Mixing Speed: Start 0 Finish 20 Diff. 20 (100 Max.)

Signature of Batch Plant Inspector: Bill Stanley

Portion of Structure Where Placed: 712RB

Time of Arr. 9:28 Total Rev. 203 (300 Max.)

Time Placement Comp. 10:11 Elapsed Time 63 (1 1/2 Hr. Max.)

Ambient Temp. 76 °F Concrete Temp. 54 °F Slump 2 3/4 (1-4")

Remarks: \_\_\_\_\_  
Cylinder No's. X  
Air % 7

Water Added in Field None Gal./Cu. Yd. \_\_\_\_\_  
Rev. Start None Finish \_\_\_\_\_ Difference \_\_\_\_\_ (30 Min.)

Remarks: \_\_\_\_\_

Field Inspectors Signature: [Signature]

# PITTSBURGH TESTING LABORATORY

PITTSBURGH, PA.

Order No. TA-7732

Supplier's Delivery

Serial No. 02429

**REPORTED TO:** FLORIDA POWER CORP.  
**PROJECT:** CRYSTAL RIVER PLANT UNIT NO. 3  
**Concrete Supplier:** West Coast Concrete, Inc.  
**Arch-Engineer:** Gilbert Assoc., Inc.  
**General Contractor:** J. A. Jones

Date 2-16 '55 Time Loaded 9:20 Class con. 5-1100 Mass  Other   
Truck No. 150 Load No. 3 Cu. Yds. 6 Counter to 0   
Cum. Cu. Yds. 18 °F Moisture: F.A. 3.5 % 231 Lbs, C.A. 2.1 % 270 Lbs.

	Design S.S.D. Wt.	Adj. Batch Wt.	
Cement (Type) <u>II</u>	<u>4092</u>	<u>4080</u>	
C.A. (Size <u>62</u> ) (Size _____)	<u>10800</u>	<u>11070</u>	<u>825</u>
F.A.	<u>6600</u>	<u>6810</u>	
Standard HCF	<u>126</u>	<u>126</u>	
Darex AEA	<u>30</u>	<u>30</u>	
Water, Gals. <u>135</u>	<u>1656</u>	<u>974</u>	Total
Ice		<u>200</u>	Lbs. Added
Total Moisture		<u>501</u>	Lbs. Gals.
Total Water		<u>1655</u>	Gals.

Rev. at Mixing Speed: Start 0 Finish 20 Diff. 20 (100 Max.)

Signature of Batch Plant Inspector: Burr Shuckey

Portion of Structure Where Placed: 712 RB  
Time of Arr. 9:40 Total Rev. 150 (300 Max.)  
Time Placement Comp. 10:28 Elapsed Time 68 (1 1/2 Hr. Max.)

Ambient Temp. 50 °F Concrete Temp. 56 °F Slump 2 1/2 (1-4")  
afterwater

Remarks: Cylinder No's.

Water Added in Field: 3/4 Gal./Cu. Yd.  
Rev. Stat. 106 Finish: 136 Difference 30 (30 Min.)

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Field Inspectors Signature: [Signature]

# PITTSBURGH TESTING LABORATORY

PITTSBURGH, PA.

Order No. TA-7732

Supplier's Delivery

Serial No. 02430

**REPORTED TO:** FLORIDA POWER CORP.  
**PROJECT:** CRYSTAL RIVER PLANT UNIT NO. 3  
**Concrete Supplier:** West Coast Concrete, Inc.  
**Arch-Engineer:** Gilbert Assoc., Inc.  
**General Contractor:** J. A. Jones

Date 2-16-73 Time Loaded 9:35 Class SW-5-MOD Mass  Other   
Truck No. 148 Load No. 4 Cu. Yds. 6 Counter to 0   
Cum. Cu. Yds. 24 °F Moisture: F.A. 35 % 23.1 Lbs; C.A. 2.5 % 270 Lbs.

	Design S.S.D. Wt.	Adj. Batch Wt.	
Cement (Type) <u>II</u>	<u>4092</u>	<u>4086</u>	
C.A. (Size <u>62</u> ) (Size _____)	<u>10800</u>	<u>11070</u>	
F.A.	<u>6600</u>	<u>6810</u>	
Daratard HCF	<u>126</u>	<u>126</u>	
Darex AEA	<u>38</u> <u>0.85</u>	<u>21</u>	
Water, Gals. <u>145</u>	<u>1656</u> Total	<u>951</u>	
Ice		<u>200</u> Lbs.	Added Gals.
Total Moisture		<u>545</u> Lbs.	Gals.
Total Water		<u>1652</u>	Gals.

Rev. at Mixing Speed: Start 0 Finish 20 Diff. 20 (100 Max.)

Signature of Batch Plant Inspector: Brian Stanley

Portion of Structure Where Placed: 712RB  
Time of Arr. 9:58 Total Rev. 218 (300 Max.)  
Time Placement Comp. 10:30 Elapsed Time 55 (1 1/2 Hr. Max.)  
Ambient Temp. 50 °F Concrete Temp. 54 °F Slump 2 (14")

Remarks: Cylinder No's Mr. A. T. Orwiler

Water Added in Field: 3/4 Gal./Cu. Yd.  
Rev. Start: 145 Finish: 175 Difference 30 (30 Min.)  
Remarks: \_\_\_\_\_

Field Inspectors Signature: [Signature]

# PITTSBURGH TESTING LABORATORY

PITTSBURGH, PA.

Order No. TA-7732

Supplier's Delivery

Serial No. 02432

**REPORTED TO:** FLORIDA POWER CORP.  
**PROJECT:** CRYSTAL RIVER PLANT UNIT NO. 3  
**Concrete Supplier:** West Coast Concrete, Inc.  
**Arch-Engineer:** Gilbert Assoc., Inc.  
**General Contractor:** J. A. Jones

Date 2-15-73 Time Loaded 10<sup>12</sup> Class cons-mod Mass  Other   
Truck No. 152 Load No. 6 Cu. Yds. 6 Counter to 0   
Cum. Cu. Yds. 36 °F Moisture: F.A. 2.5 % 231 Lbs; C.A. 2.25 % 218 Lbs.

	Design S.S.D. Wt.	Adj. Batch Wt. <u>BBS</u>	
Cement (Type <u>PP</u> )	<u>4092</u>	<u>4098</u>	
C.A. (Size <u>67</u> ) (Size _____)	<u>10800</u>	<u>11100</u>	
F.A.	<u>6600</u>	<u>6280</u>	
Daratard HCF	<u>126</u>	<u>126</u>	
Darex AEA	<u>28 BBS</u>	<u>28</u>	
Water, Gals. <u>165</u>	<u>1656</u> Total	<u>987</u>	
Ice		<u>200</u> Lbs.	Added Gals.
Total Moisture		<u>BBS 494</u> Lbs.	Gals.
Total Water		<u>1661</u>	Gals.

Rev. at Mixing Speed: Start 0 Finish 20 Diff. 20 (100 Max.)

Signature of Batch Plant Inspector: Bob Stacey

Portion of Structure Where Placed: 712 RB  
Time of Arr. 10:33 Total Rev. 133 (300 Max.)  
Time Placement Comp. 10:57 Elapsed Time 45 (1 1/2 Hr. Max.)

Ambient Temp. 50 °F Concrete Temp. 56 °F Slump 3 (1-4")

Remarks: Cylinder No's.  
218LABCDEF Air %  
34

Water Added in Field: \_\_\_\_\_ Gal./Cu. Yd.  
Rev. Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Difference \_\_\_\_\_ (30 Min.)

Remarks: Composite Slump 1 3/4  
Temp 60

Field Inspectors Signature: [Signature]

# PITTSBURGH TESTING LABORATORY

PITTSBURGH, PA.

Order No. TA-7732  
Supplier's Delivery

Serial No. 0.2441

**REPORTED TO:** FLORIDA POWER CORP.  
**PROJECT:** CRYSTAL RIVER PLANT UNIT NO. 3  
**Concrete Supplier:** West Coast Concrete, Inc.  
**Arch-Engineer:** Gilbert Assoc., Inc.  
**General Contractor:** J. A. Jones

Date 2-16-13 Time Loaded 11<sup>30</sup> Class AM-1 Mod Mass  Other   
Truck No. 181 Load No. 13 Cu. Yds. 6 Counter to 0   
Cum. Cu. Yds. 78 °F Moisture: F.A. 3.5 % 231 Lbs; C.A. 2.0 % 216 Lbs.

	Design S.S.D. Wt.	Adj. Batch Wt.	
Cement (Type) <u>III</u>	<u>4092</u>	<u>4080</u>	
C.A. (Size <u>67</u> ) (Size _____)	<u>10800</u>	<u>11070</u>	
F.A.	<u>660</u>	<u>6810</u>	
Daratard HCF	<u>126</u>	<u>126</u>	
Darex AEA	<u>28 885</u>	<u>28</u>	
Water, Gals. <u>61</u>	<u>1656</u> Total	<u>915</u>	Added
Ice		<u>300</u> Lbs.	Gals.
Total Moisture		<u>447</u> Lbs.	Gals.
Total Water		<u>1662</u>	Gals.

Rev. at Mixing Speed: Start 0 Finish 20 Diff. 20 (100 Max.)

Signature of Batch Plant Inspector: Bill Stanley

Portion of Structure Where Placed: 712 RB  
Time of Arr. 11:53 Total Rev. 128 (300 Max.)  
Time Placement Comp. 12:00 Elapsed Time 20 (1 1/2 Hr. Max.)

Ambient Temp. 52 °F Concrete Temp. 67 °F Slump 3 (1-4")

Remarks: Cylinder No's.  
7182 ABCDEF Air %  
3.5

Water Added in Field: None Gal./Cu. Yd.  
Rev. Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Difference: \_\_\_\_\_ (30 Min.)

Remarks: Composite Slump = 2 1/2  
Temp = 59

60  
Field Inspectors Signature: [Signature]

DUP  
FILE

GILBERT ASSOCIATES, INC.  
QUALITY ASSURANCE REPORT

SURVEILLANCE OF SAMPLING METHOD FOR FRESH CONCRETE

(ASTM C-172)

CLIENT FLA. POWER Corp.  
UNIT CRYSTAL RIVER No. 3

PREPARED BY T. SOCKACI SHEET 1 OF 1

DATE FEB. 16, 1973 CONTRACTOR PTL

AREA REACT BLDG. EXTERIOR, BUTT. 3-4

		COMPLIANCE		COMPLIANCE	
A. PRIOR TO SAMPLING		YES	NO	YES	NO
1.	Was all of the mixing water added to the mixer	X	—		
2.	Was concrete completely mixed	X	—		
3.	Was the very first portion of the batch discharged	X	—		
B. SAMPLING					
1.	Taken by repeatedly passing a receptacle through the entire discharge stream	N/A	—		
2.	Taken by completely diverting the discharge stream into a sample container	X	—		
C. SAMPLING RESTRICTIONS					
1.	Was elapse time between samples within 15 minutes	X	—		
2.	Were slump and/or air tests started within 5 minutes of sampling	X	—		
3.	Was the sample protected from rapid evaporation conditions (sun, wind, etc.)	N/A	—		
4.	Was sample protected from other contaminating elements	N/A	—		
5.	Was sample taken only from middle portion of the batch	X	—		

COMMENTS \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

T. Sockaci  
STRUCTURAL ENGINEER  
QUALITY ASSURANCE.

NOTE: USE SUPPLEMENTARY SHEET NO. GAI/OA(F)11.6 FOR ADDITIONAL COMMENTS

# PITTSBURGH TESTING LABORATORY

ESTABLISHED 1961  
PITTSBURGH, PA.

AS A MUTUAL PROTECT ON TO CLIENTS THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS AND AUTHORIZATION FOR PUBLICATION OF TEST RESULTS IS OBTAINED FROM CLIENTS. OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

Order No. TA-7732

## REPORT

Date \_\_\_\_\_

### REPORT OF TEST ON CONCRETE CYLINDERS 6 DIAMETER BY 12 LENGTH

**REPORTED TO:** FLORIDA POWER CORP.  
**PROJECT:** CRYSTAL RIVER PLANT UNIT NO. 3  
**General Contractor:** West Coast Concrete, Inc.  
**Architect-Engineer:** Gilbert Assoc., Inc.  
**Inspector:** A. Jones

*LOGGED*

Inspector: *A. Von Nivenheim*  
**A. VON NIVENHEIM, P.T.L.**

POUR: 712 RB

Date Cast 2-16-73 Concrete Class 5000 P.S.I. Area 28.27 Sq. In.  
Cement Factor 7.25 Brand Fla. Portland Type II Aggregate Size ASTM# 67

DEL. S/N.	CYLINDER IDENT.	W/C GAL.-SACK	SLUMP INCHES	AIR %	CONCRETE TEMP. °F.	DATE TESTED	AGE DAYS
02132	2181 A	4.57	1 3/4	3.4	60	2-23-73	7
	B					"	"
	C					3-16-73	28
	D					"	"
	E					5-17-73	90
	F					"	"
02141	2182 A	4.59	2 1/2	3.5	59	2-23-73	7
	B					"	"
	C					3-16-73	28
	D					"	"
	E					5-17-73	90
	F					"	"

TOTAL LOAD LBS.	COMP. ST. P.S.I.	SPECIFIC LOCATION
138,500	1900	50'E-Butt #
136,000	1810	3, Elev. 202'
176,500	6210	
175,000	6190	
188,000	6650	
188,000	6650	
112,000	5020	20'W-Butt #
112,500	5010	1, Elev. 205'
153,000	5110	
151,500	5360	
206,000	7290	
211,000	7170	

REMARKS:

2 - FPC Quality Records  
3 - P.T.L.  
P13-21-3-7

PITTSBURGH TESTING LABORATORY  
*Rosa T. McMillan*  
P.T.L.