




| United States Nuclear Regulatory Commission Official Hearing Exhibit              |   |
|---|---|
| In the Matter of:   | Progress Energy Florida, Inc.<br>(Levy County Nuclear Power Plant, Units 1 and 2) |
|  | ASLBP #: 09-879-04-COL-BD01   |
|   | Docket #: 05200029   05200030   |
|   | Exhibit #: PEF012-00-BD01   |
|   | Admitted: 10/31/2012  |
|   | Rejected:   |
| Other:  | Identified: 10/31/2012<br>Withdrawn:<br>Stricken:                                 |

Water-Data Report 2011

## 02313250 WITHLACOOCHEE RIVER BYPASS CHANNEL NEAR INGLIS, FL

Tampa Bay Basin  
Withlacoochee Subbasin

LOCATION.--Lat 29°01'15", long 82°38'17" referenced to North American Datum of 1927, in NE ¼ sec.12, T.17 S., R.16 E., Levy County, FL, Hydrologic Unit 03100208, on right wingwall at downstream side of culverts for Inglis Lock access road, 1.3 mi upstream from control structure, 1.4 mi upstream from mouth, and 3.0 mi east of Inglis.

DRAINAGE AREA.--Indeterminate.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1970 to current year.

GAGE.--Water-stage recorder, gate-opening recorder, and data-collection platform. Datum of gage is at NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to July 16, 1971, water-stage recorder for Withlacoochee River at Inglis Dam, near Dunnellon (station 02313230) used as base gage for this station. Prior to Sept. 26, 1991, gage located 90 ft above control structure and 1.3 mi downstream from present site.

COOPERATION.--Gate-opening record provided by Southwest Florida Water Management District.

REMARKS.--Records fair. Flow regulated by manipulation of gates in spillway; channel completed and flow through spillway began Dec. 17, 1969. Discharge computed from relation between discharge and gate openings. Discharge at station is the diversion from Lake Rousseau to maintain flow into the old river channel.

PEF012  
June 26, 2012

## 02313250 WITHLACOOCHEE RIVER BYPASS CHANNEL NEAR INGLIS, FL—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

| Day          | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1            | 1,090  | 814    | 668    | 685    | 675    | 714    | 839    | 1,050  | 465    | 708    | 549    | 617    |
| 2            | 1,090  | 814    | 660    | 666    | 676    | 717    | 894    | 832    | 440    | 683    | 602    | 658    |
| 3            | 1,080  | 815    | 660    | 640    | 677    | 578    | 842    | 675    | 440    | 563    | 639    | 672    |
| 4            | 1,060  | 814    | 660    | 638    | 644    | 578    | 820    | 758    | 441    | 525    | 632    | 668    |
| 5            | 1,000  | 806    | 662    | 638    | 588    | 577    | 876    | 926    | 440    | 469    | 584    | 576    |
| 6            | 972    | 802    | 692    | 870    | 587    | 658    | 915    | 906    | 441    | 469    | 582    | 690    |
| 7            | 939    | 801    | 709    | 732    | 902    | 613    | 732    | 827    | 465    | 486    | 580    | 732    |
| 8            | 930    | 786    | 707    | 624    | 777    | 613    | 687    | 746    | 484    | 747    | 706    | 669    |
| 9            | 932    | 778    | 710    | 608    | 856    | 598    | 834    | 748    | 488    | 573    | 889    | 651    |
| 10           | 934    | 779    | 699    | 610    | 912    | 712    | 841    | 750    | 486    | 633    | 788    | 707    |
| 11           | 933    | 780    | 682    | 611    | 749    | 740    | 746    | 715    | 484    | 888    | 776    | 644    |
| 12           | 931    | 780    | 654    | 605    | 608    | 644    | 748    | 664    | 481    | 977    | 671    | 612    |
| 13           | 932    | 767    | 603    | 602    | 609    | 613    | 945    | 638    | 474    | 659    | 617    | e612   |
| 14           | 929    | 707    | 600    | 605    | 610    | 572    | 993    | 665    | 424    | 586    | 607    | e609   |
| 15           | 924    | 641    | 647    | 608    | 706    | 598    | 753    | 931    | 456    | 584    | 618    | e609   |
| 16           | 920    | 623    | 675    | 610    | 772    | 609    | 729    | 512    | 564    | 583    | 633    | 607    |
| 17           | 890    | 709    | 680    | 795    | 716    | 628    | 858    | 370    | 476    | 650    | 633    | 607    |
| 18           | 825    | 758    | 682    | 789    | 678    | 641    | 910    | 558    | 474    | 643    | 631    | 605    |
| 19           | 694    | 781    | 680    | 610    | 638    | 640    | 868    | 715    | 458    | 540    | 630    | 605    |
| 20           | 856    | 782    | 674    | 640    | 639    | 641    | 810    | 688    | 436    | 436    | 629    | 607    |
| 21           | 874    | 781    | 673    | 894    | 638    | 616    | 870    | 454    | 434    | 436    | 628    | 706    |
| 22           | 853    | 697    | 634    | 733    | 637    | 568    | 895    | 456    | 432    | 519    | 627    | 672    |
| 23           | 845    | 644    | 610    | 500    | 644    | 568    | 896    | 535    | 430    | 683    | 644    | 624    |
| 24           | 847    | 644    | 610    | 625    | 719    | 567    | 918    | 865    | 429    | 590    | 803    | 616    |
| 25           | 845    | 645    | 611    | 846    | 651    | 566    | 1,000  | 766    | 484    | 547    | 663    | 617    |
| 26           | 845    | 648    | 609    | 718    | 574    | 563    | 1,010  | 598    | 604    | 545    | 607    | 631    |
| 27           | 845    | 652    | 605    | 768    | 573    | 564    | 1,010  | 613    | 602    | 602    | 516    | 624    |
| 28           | 836    | 752    | 651    | 744    | 572    | 566    | 1,000  | 608    | 600    | 799    | 604    | 620    |
| 29           | 822    | 773    | 674    | 725    | ---    | 569    | 1,030  | 565    | 507    | 642    | 639    | 613    |
| 30           | 817    | 735    | 681    | 672    | ---    | 618    | 1,050  | 564    | 476    | 549    | 702    | 619    |
| 31           | 815    | ---    | 685    | 674    | ---    | 793    | ---    | 531    | ---    | 550    | 754    | ---    |
| <b>Total</b> | 28,105 | 22,308 | 20,447 | 21,085 | 19,027 | 19,242 | 26,319 | 21,229 | 14,315 | 18,864 | 20,183 | 19,099 |
| <b>Mean</b>  | 907    | 744    | 660    | 680    | 680    | 621    | 877    | 685    | 477    | 609    | 651    | 637    |
| <b>Max</b>   | 1,090  | 815    | 710    | 894    | 912    | 793    | 1,050  | 1,050  | 604    | 977    | 889    | 732    |
| <b>Min</b>   | 694    | 623    | 600    | 500    | 572    | 563    | 687    | 370    | 424    | 436    | 516    | 576    |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2011, BY WATER YEAR (WY)**

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 1,069  | 1,029  | 1,012  | 1,014  | 1,057  | 1,035  | 1,018  | 924    | 912    | 991    | 1,055  | 1,095  |
| <b>Max</b>  | 1,594  | 1,566  | 1,574  | 1,549  | 1,502  | 1,480  | 1,574  | 1,518  | 1,551  | 1,548  | 1,557  | 1,577  |
| <b>(WY)</b> | (1974) | (1980) | (1998) | (1989) | (1989) | (1986) | (1984) | (1984) | (1984) | (1984) | (1984) | (1973) |
| <b>Min</b>  | 265    | 240    | 436    | 435    | 442    | 470    | 463    | 362    | 364    | 442    | 364    | 508    |
| <b>(WY)</b> | (1973) | (1973) | (2001) | (2001) | (2001) | (2000) | (2001) | (2002) | (2000) | (2001) | (2001) | (2000) |

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SUMMARY STATISTICS

|                          | Calendar Year 2010 | Water Year 2011 | Water Years 1970 - 2011 |
|--------------------------|--------------------|-----------------|-------------------------|
| Annual total             | 362,619            | 250,223         |                         |
| Annual mean              | 993                | 686             | 1,013                   |
| Highest annual mean      |                    |                 | 1,488                   |
| Lowest annual mean       |                    |                 | 454                     |
| Highest daily mean       | <sup>a</sup> 1,320 | 1,090           | 1,840                   |
| Lowest daily mean        | 600                | 370             | 0.00                    |
| Annual seven-day minimum | 619                | 442             | 86                      |
| Maximum peak stage       |                    | 27.81           | 28.31                   |
| 10 percent exceeds       | 1,290              | 894             | 1,470                   |
| 50 percent exceeds       | 974                | 654             | 994                     |
| 90 percent exceeds       | 689                | 514             | 564                     |

<sup>a</sup> Mar 28-30, Apr 2-11

