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January 13, 2011

The Honorable Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

ROANOKE RAPIDS AND GASTON, FERC PROJECT NO. 2009 NC AND VA
ARTICLE 424 WHITEWATER BOATING PLAN
2010 ANNUAL REPORT

Dear Secretary Bose:

In accordance with the license order issued March 31, 2004, Virginia Electric and Power Company, doing business as Dominion North Carolina Power (Dominion), submits the above referenced report.

The report (and appendix) has been posted on Dominion's whitewater web page and distributed to the US Army Corps of Engineers and members of the Cooperative Management Team as noted below.

If you have any questions related to the report please contact Mr. Jim Thornton at (804) 273-3257.

Sincerely,



C. D. Holley

Attachments (2, Report and Appendix 1)

cc: Mr. Tony Young (USACE)
Mr. Jim Mead (NCDENR)
Mr. John Simeon (City of Roanoke Rapids)
Mr. Paul Ferguson (Carolina Canoe Club)
Mr. Chris Rountree (Halifax County, NC)
Mr. Chris Wicker
Mr. Greg Lawson
Mr. Mike Watson



**ROANOKE RAPIDS AND GASTON
FERC PROJECT NUMBER 2009
ARTICLE 424 WHITEWATER BOATING PLAN
2010 - FIFTH ANNUAL REPORT**

Introduction

Article 424 of the Roanoke Rapids and Gaston Hydropower License as amended on March 4, 2005 (110 FERC ¶61,214) required the development of a Whitewater Boating Plan (Plan). The plan was submitted to the Commission on December 9, 2004 and approved by the Commission on December 13, 2005 (113 FERC ¶62,198). This is the fifth annual report. After the fifth annual report, the Plan requires Dominion to convene a meeting of the Cooperative Management Team (CMT) by February 15, 2011 to review the plan and the five years of compliance data. A report of that meeting along with any consensus Plan modifications for the Federal Energy Regulatory Commission's (Commission) approval will be submitted to the Commission in a timely manner.

Requirements

The Plan requires an annual report for the whitewater releases from the Roanoke Rapids dam to support paddler recreation. The report is to cover nine weekends of whitewater releases, inclusive of the four advanced planned release weekends, and quantify (a) the weekly USACE Kerr declaration, (b) time and date peaking ceased prior to the whitewater flow day and (c) USGS Halifax gage readings for the nine weekends at 9:00 AM, 12 Noon and 3:00 PM. The whitewater flow period is from the end of the anadromous fish spawning flows (June 16) through the end of October. The Plan further requires the report to be submitted to the North Carolina Department of Environment and Natural Resources (NCDENR), the US Army Corps of Engineers (USACE), the Carolina Canoe Club, the City of Roanoke Rapids and the County of Halifax, NC; and be posted on Dominion's paddler web page.

Target Whitewater Conditions

In order for desired whitewater conditions to occur, Dominion targets flows to be between 2000 cfs and 3500 cfs and have the river stage at the Halifax USGS gage at 20' or less. In order to accomplish this, Dominion ceases peaking the evening before the planned whitewater flow day.

Statistical Summary

1. Whitewater flow releases

The whitewater flow period covered 40 potential required whitewater flow days. Of those days, whitewater flow was provided 38 days (95%). Flows were not provided on October 30 and 31 because the weekly declaration was $\geq 8,000$ cfs. Dominion is not required to provide paddler flows when the declaration reaches that threshold.

2. Halifax stage
 - a. Halifax stage < 20':
 - At 9:00 AM, 31 times out of 38 days (82%).
 - At 12:00 Noon, 31 times out of 38 days (82%).
 - At 3:00 PM, 35 times out of 38 days (92%).
 - b. Halifax stage < 20' when Roanoke Rapids peaked the previous day:
 - At 9:00 AM, 8 times out of 14 days (57%).
 - At 12:00 Noon, 9 times out of 14 days (64%).
 - At 3:00 PM, 13 times out of 14 days (93%).
 - c. Average Halifax stage for 38 days:
 - At 9:00 AM: 19.3'.
 - At 12:00 Noon: 19.1'.
 - At 3:00 PM: 18.8'.
 - d. Average Halifax stage when Roanoke Rapids peaked the previous day:
 - At 9:00 AM: 20.1'.
 - At 12:00 Noon: 19.7'.
 - At 3:00 PM: 19.4'.
 - e. Average Halifax stage difference between 9 AM and 3 PM when Roanoke Rapids peaked the previous day: 0.7'.

Advanced Planned Releases

In early March, Dominion posted on its paddler web page that the following weekends would be Advanced Planned releases: July 3 and 4, July 24 and 25, August 14 and 15 and September 4 and 5.

Data

The plan requires recording and reporting of data from 9 paddler flow weekends. Data from the entire paddler season is included as Appendix 1.

Roanoke River Whitewater Report, FERC Project # 2009 NC&VA										
Dates and times whitewater flow required by license										
Date	Weekly Dec	DatePeaking Ceased	TimePeaking Ceased	RRFlow 9am	RRFlow 12pm	RRFlow 3pm	HGauge 9am	HGauge 12pm	HGauge 3pm	
6/19/2010 ¹	2,638	6/18/2010	1900	3,383	3,383	3,383	23.10	22.43	21.91	
6/20/2010 ¹	2,638			3,363	3,363	3322	20.55	20.45	20.38	
6/26/2010 ¹	3,127	6/18/2010	1900	3,222	3,202	3,202	19.94	19.95	19.97	
6/27/2010 ¹	3,127			3,124	3,104	3085	19.93	19.89	19.88	
3-Jul-2010	3,100	7/2/2010	2000	2,203	2,187	2203	18.56	18.54	18.54	
4-Jul-2010	3,100			2,283	2,267	2267	18.65	18.62	18.63	
10-Jul-2010	3,100	7/8/2010	1700	2,622	2,587	2,570	19.29	19.27	19.26	
11-Jul-2010	3,100			2,316	2,300	2300	18.93	18.88	18.84	
17-Jul-2010	3,100	7/16/2010	1700	2,382	2,399	2,332	19.80	19.57	19.38	
18-Jul-2010	3,100			2,267	2,300	2267	18.88	18.83	18.79	
24-Jul-2010	3,100	7/23/2010	1900	2,155	2,155	2155	20.74	20.12	19.69	
25-Jul-2010	3,100			2,155	2,155	2155	18.68	18.61	18.57	
31-Jul-2010	3,100	7/28/2010	1900	2,187	2,187	2,187	18.83	18.73	18.66	
1-Aug-2010	3,100			2,187	2,203	2187	18.58	18.55	18.53	
7-Aug-2010	3,090	8/6/2010	1700	2,171	2,171	2,155	19.48	19.19	18.98	
8-Aug-2010	3,090			2,219	2,203	2203	18.56	18.53	18.51	
14-Aug-2010	3,100	8/13/2010	1700	2,219	2,219	2219	19.40	19.11	18.91	
15-Aug-2010	3,100			2,251	2,267	2267	18.51	18.47	18.46	
21-Aug-2010	3,100	8/20/2010	1700	2,283	2,300	2,300	19.65	19.29	19.05	
22-Aug-2010	3,090			2,283	2,300	2,283	18.50	18.45	18.43	
28-Aug-2010	3,370	8/27/2001	1700	2,316	2,300	2,300	19.68	19.28	18.99	
29-Aug-2010	3,370			2,349	2,332	2332	18.47	18.44	18.42	
4-Sep-2010	3,090	9/3/2010	1800	2,283	2,283	2283	19.40	19.06	18.82	
5-Sep-2010	3,090			2,316	2,300	2300	18.29	19.26	18.24	
11-Sep-2010	3,090	10/9/2010	1800	2,300	2,316	2,316	19.61	19.25	18.98	
12-Sep-2010	3,090			2,283	2,283	2283	18.35	18.29	18.24	
18-Sep-2010	3,090	9/17/2010	1800	2,283	2,251	3,008	21.18	20.46	19.91	
19-Sep-2010	3,090			2,382	2,382	2382	18.43	18.39	18.37	
25-Sep-2010	3,090	9/24/2010	1800	2,251	2,251	2,251	21.18	20.46	19.91	
26-Sep-2010	3,210			2,316	2,316	2300	18.71	18.59	18.5	
10/2/2010 ²	3,210	10/1/2010	2000	2,046	2,031	2,016	20.67	20.06	19.60	
10/3/2010 ²	3,210			2,267	2,267	2267	20.65	20.35	20.08	
9-Oct-2010	3,210	10/8/2010	1800	2,155	2,187	2,187	18.28	18.29	18.32	
10-Oct-2010	3,210			2,031	1,941	1941	18.43	18.34	18.25	
16-Oct-2010	3,210	10/14/2010	2100	2,155	2,187	2,187	18.28	18.29	18.32	
17-Oct-2010	3,210			2,219	2,235	2,235	18.42	18.41	18.41	
23-Oct-2010	3,210	10/22/2010	2000	2,203	2,203	2,203	20.18	19.73	19.41	
24-Oct-2010	3,210			2,203	2,203	2,187	18.68	18.62	18.58	
10/30/2010 ³	8,000									
10/31/2010 ³	8,000									
						Avg.	19.25	19.07	18.84	
				Post Peak Day Avg				20.09	19.69	19.39

Note 1: Minimum flow requirement June 16 - 28 = 2,800 cfs

Note 2: 6" rainfall event Sept 27 - Oct 1.

Note 3: No paddler flow since weekly dec \geq 8,000 cfs

Yellow highlights indicate long term planned paddler days.

Green highlight indicate 0900 Halifax gage when Roanoke Rapids peaked previous day