Enclosure 7

NON-PROPRIETARY VERSION

Bechtel Calculation 24830-G-009, Rev. 0, Meteorological Data (2002-May 2003) Processing for Lake Anna Long-Term Hydrothermal Simulation

CALCULATION COVER SHEET

PROJECT	JOB NO.	CALC NO.	SHEET
Dominion North Anna ESP Project	24830-003	24830-G-009	1

SUBJECT	DISCIPLINE
Meteorological Data (2002-MAY2003) Processing for Lake Anna Long-Term Hydrothermal Simulation	G&HES

CALCULATION STATUS DESIGNATION	PRELIMINARY	CONFIRMED	SUPERSEDED	VOIDED
	☐	X	☐	☐

COMPUTER PROGRAM/TYPE	SCP	PROGRAM NO.	VERSION/RELEASE NO.
FORTRAN	☐	DayAvg3280	

The daily averages of sky cover, dry bulb temperature, relative humidity, and wind speed were calculated from hourly data collected by the U.S. National Weather Service, Richmond Airport station, Richmond, Virginia, January 2002- May 3, 2003.

THIS CALCULATION HAS BEEN REVIEWED BY BECHTEL POWER CORPORATION AND ANY PROPRIETARY INFORMATION HAS BEEN REMOVED. WHEREVER PROPRIETARY INFORMATION HAS BEEN REMOVED, BRACKETS HAVE BEEN INSERTED CONTAINING THE STATEMENT "PROPRIETARY INFORMATION DELETED."

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NO.	REASON FOR REVISION	TOTAL NO. OF SHEETS	LAST SHEET NO.	BY	CHECKED	APPROVED/ ACCCEPTED	DATE
0	Issue to project						

RECORD OF REVISIONS

Calculation Sheet		
Project North Anna ESP Application	Job No. 24830-003	Calc. No. 24830-G-009
Subject Meteorological Data (2002-MAY2003) Processing for Lake Anna Long-Term Hydrothermal Simulation		
Discipline G&HES	Sheet No. 2	Sheet Rev. 0

Press F11 to move around in form

1. PURPOSE

To perform a long-term simulation for Lake Anna, daily meteorological data from Richmond International Airport, VA are required. A Fortran computer code, DayAvg3280, was developed in house to serve that purpose. Using the hourly data collected by the U.S. National Weather Service, DayAvg3280 produces daily averages of wind speed, relative humidity, sky cover, and dry bulb temperature in sequential order.

The generated output file and source code are included in the attachments.

2. INPUT DATA

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3. SOURCE CODE AND PROGRAM LOGIC

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4. RESULTS

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5. VALIDATION

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6. CONCLUSIONS

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7. REFERENCES

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Calculation Sheet		
Project North Anna ESP Application	Job No. 24830-003	Calc. No. 24830-G-009
Subject Meteorological Data (2002-MAY2003) Processing for Lake Anna Long-Term Hydrothermal Simulation		
Discipline G&HES	Sheet No. 4	Sheet Rev. 0

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Attachment 1

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Attachment 2

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Attachment 3:

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Attachment 4:

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