From: "Davis, James T." <JTDAVIS@southernco.com>
To: "Stephen Raul Monarque" <SRM2@nrc.gov>
Date: 12/13/2006 10:50:27 AM
Subject: FW: Hydro Files 1 of 2

Jim Davis
Southern Nuclear
ESP Project Engineer
205.992.7692 Office
205.253.1248 Cell
205.992.5296 Fax
Mailing Address
Post Office Box 1295, BIN B056
Birmingham, AL 35201
Street Address
Building 40
Inverness Center Parkway
Birmingham, AL 35242

From: Davis, James T.
Sent: Tuesday, December 12, 2006 3:10 PM
To: Christian Araguas (cja2@nrc.gov)
Cc: Pierce, Chuck R.; Moorer, Tom C.
Subject: Hydro Files 1 of 2

Christian,

Please have your guys review and request the file they want submitted formally.

<<hydro .pdf>>

Jim Davis
Southern Nuclear
ESP Project Engineer
205.992.7692 Office
205.253.1248 Cell
205.992.5296 Fax
Mailing Address
Post Office Box 1295, BIN B056
Birmingham, AL 35201
Street Address

Building 40
Inverness Center Parkway
Birmingham, AL 35242

Hearing Identifier: Vogtle_Public
Email Number: 252

Mail Envelope Properties (46091132.HQGWDO01.TWGWPO04.200.200000C.1.9B299.1)

Subject: FW: Hydro Files 1 of 2
Creation Date: 12/13/2006 10:50:27 AM
From: "Davis, James T." <JTDAVIS@southernco.com>

Created By: JTDAVIS@southernco.com

Recipients
"Stephen Raul Monarque" <SRM2@nrc.gov>

Post Office	**Route**
TWGWPO04.HQGWDO01	nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	868	12/13/2006 10:50:27 AM
hydro .pdf	3343141	3/27/2007 12:42:26 PM
Mime.822	4682601	3/27/2007 12:42:26 PM

Options
Priority: Standard
Reply Requested: No
Return Notification: None
None

Concealed Subject: No
Security: Standard

SSAR Sections 2.4.1-2.4.3
Data Provided in Response to RAI 2.4.1

The electronic data files utilized in preparing Sections 2.4.1, 2.4.2 and 2.4.3 of the SSAR for the Vogtle ESP are provided in the following four directories, titled to reflect subject matter:

- GIS work
- Hydrology Calcs
- NWS Model
- Proposed Water Management Changes

The "GIS work" folder contains shapefiles used for delineating the Savannah River Watershed within an ArcMap project format and copies of the PDFs exported from the project to be used for Figure 2.4.1.

The "Hydrology Calcs" folder contains all the USGS data files used for the calculation of hydrologic statistics presented in Sections 2.4.1 and 2.4.2. Files are placed in separate subdirectories for the PMF, PMP, and gage analysis calculations. Copies are provided in a PDF printed from the website and in the text file format exported from the website for analysis.

The "NWS Model" folder contains files obtained from the NWS as described in Section 2.4.1.

The "Proposed Water Management Changes" folder contains PDF files printed from the USACE website as supporting documentation for the discussion of proposed water management changes for Section 2.4.1.2.4 of the SAR.

The files provided in the four folders are listed below with folders indicated in bold text and subdirectories indented; within each folder, "loose" files are listed before the subdirectories.

I. GIS WORK

24kgrid_metadata_shp.pdf
Basin Map no labels.jpg
Gage.mxd
GageLocationMap.jpg
GageLocationMapAnnotated.jpg
NWS basins above Vogtle.bmp
USGS gage locations labeled.jpg
USGS Quad Index Map.jpg
VogtleWatershed.bmp

a. B_Vogtle3

BasinH12.dbf
BasinH12.prj
BasinH12.sbn
BasinH12.sbx
BasinH12.shp
BasinH12.shp.xml
BasinH12.shx

SavanaRiverPoly.dbf
SavanaRiverPoly.prj
SavanaRiverPoly.sbn
SavanaRiverPoly.sbx
SavanaRiverPoly.shp
SavanaRiverPoly.shp.xml
SavanaRiverPoly.shx
SC_hu12polygon.dbf
SC_hu12polygon.prj
SC_hu12polygon.sbn
SC_hu12polygon.sbx
SC_hu12polygon.shp
SC_hu12polygon.shp.xml
SC_hu12polygon.shx
basinsoutlines.txt
NWScoords Input to CORPCON.txt
nwsfi.txt
NWSout.txt
NWSwatersheds.dgn
NWSwatersheds.dwg
USGSgagesNatCoords.txt
USGSgagesUTM.txt
USGSgagesUTM1.txt

b. NWS watershed files

basinsoutlines.txt
NWScoords Input to CORPCON.txt
nwsfi.txt
NWSout.txt
NWSwatersheds.dgn
NWSwatersheds.dwg
USGSgagesNatCoords.txt
USGSgagesUTM.txt
USGSgagesUTM1.txt

II. HYDROLOGY CALCS

a. PMF

HMR51.djvu
HMR52.djvu

b. PMP

Complete.djvu
pmp.txt

c. USGS gage data

gage7000.bmp
gage7320.bmp
gage7500.bmp
gage8500.bmp
List of USGS Savannah R gages.txt
Savannah River gages.txt
Savannah River gages2.txt

i. Annual Mean flow

annual.txt
AugsutaGAAvgAnnualQs.pdf

SSAR Sections 2.4.1-2.4.3
Data Provided in Response to RAI 2.4.1

BurtonsFerryAverageAnnualQ.pdf
JacksonAnnualMean.pdf

ii. Annual Peak

annpeak.txt
AugustaAnnualPeakQs.pdf
BurtonsFerryAnnualPeakQ.pdf
CalhounAnnualPeakQs.pdf
CalhounFallsAnnualPeakQs.pdf
ClyoAnnualPeakQ.pdf
JacksonAnnualPeakQ.pdf
peak.txt
peak7000.txt
peak7000Watstore.txt
peaktabformatted.txt
Qpeak302197000.txt
Qpeak302197320.txt
Qpeak302197500.txt
Qpeak302198500.txt
Qpeak7000mdy.txt
USGSReport1990.pdf

iii. Average Daily

AugsutaGAAnnualAvgDailyQs.pdf
AugustadailyQ.bmp
avgday.txt
BurtonsFerryAverageDaily.pdf
CalhounFallsAnnualAvgDailyQs.pdf
ClyoGAAnnualAvgDailyQs.pdf
JacksonAnnualAvgDailyQs.pdf

iv. Daily

CommonPeriod.bmp
CommonPeriodAnnotated.bmp
daily.txt
DailyQ7000.bmp
DayQJackson.txt
QdailyAugusta.txt
QdailyBurtonsFerry.txt
QdailyClyo.txt
SNOClow.wdm
SNOClow.wdu
TotalPeriod&closures.bmp
TotalPeriod.bmp

v. Low Flow

3&7dayLowFlowFRQNCY.OUT
DURANL7000.OUT
DURANLshortAugSeries.OUT
low.txt
NDAY.OUT

vi. Monthly

AugustaMonthlyAvgQs.pdf
BurtonsFerryMonthlyQ.pdf
CalhounMonthlyAvgQs.pdf

ClyoMonthlyQs.pdf
JacksonMonthlyQs.pdf
month.txt

III. NWS MODEL

basins.txt
hucs012Plane3.jpg
hucs012Plane4.jpg
HUCsInNWSbasin.dbf
HUCsInNWSbasin.dbf.xml
HUCsINNWSbasins.jpg
IncludedHUCs.dbf
IncludedHUCs.jpg
nws.txt
NWSRFS documentation.msg
NWSRFS documentation.txt
NWSRFS for Savannah River.msg
Nwsrfs for Savannah Rvr.txt
NWSsubbasins.dbf
NWSsubbasins.dbf.xml
NWSwatersheds.dgn
NWSwatersheds.dwg
Savannah River Routing parameters.msg
Savannah River routing parameters.txt
Savannah River Unit Hydrographs.msg
Savannah Rvr Unit Hydrographs.txt
SP_hucs012.jpg
srblagk.txt
srbuhg.txt
USGS_data.jpg
us_southeast_nuclear_plants.bmp
Vogtle_FIG_1.2_4_esbwr_V8_9_2.jpg

IV. PROPOSED WATER MANAGEMENT

www.sas.usace.army.mil_projects_projects_brunharb.pdf
www.sas.usace.army.mil_projects_projects_clemdam.pdf
www.sas.usace.army.mil_projects_projects_hartrehb.pdf
www.sas.usace.army.mil_projects_projects_lowshbas.pdf
www.sas.usace.army.mil_projects_projects_nsbld.pdf
www.sas.usace.army.mil_projects_projects_oatescrk.pdf
www.sas.usace.army.mil_projects_projects_rbrdam.pdf
www.sas.usace.army.mil_projects_projects_rbrmitigation.pdf
www.sas.usace.army.mil_projects_projects_shwrda96.pdf
www.sas.usace.army.mil_projects_projects_srbcomp.pdf
www.sas.usace.army.mil_projects_projects_thurrehb.pdf

SSAR Section 2.4.4 Potential Dam Failures
Data Provided in Response to RAI 2.4.1

The following information used in the preparation of SSAR Section 2.4.4, Potential Dam Failures, is provided in response to RAI 2.4.1:

1. An link to the U.S. Army Corps of Engineers Water Control Manual for the Savannah River. This document, which is maintained online and accessed through the internet, provides engineering data for the 3 U.S. Army Corps of Engineers owned and operated dams on the Savannah River (Thurmond Dam, Russell Dam, and Hartwell Dam). Additionally stage and storage information is provided for Jocassee and Keowee dams located upstream of Hartwell Dam.

2. PDF copies of cross sections for the 3 U.S. Army Corps of Engineers Dams from the Water Control Manual. The cross sections are not available in the online version of the Water Control Manual.

3. A PDF copy of a letter describing the PMF flood conditions for the Jocassee and Keowee Dams.

4. Shape files for USGS Topographic Maps for the entire reach of the Savannah River upstream of the proposed site. The maps are contained in compressed folders, with one folder for each county.

5. Dam break model file. The dam break model was performed using the dam breach and unsteady flow options in HEC-RAS. The files are provided in a compressed folder.

6. Scanned jpeg files of bathymetry maps for Thurmond, Russell, and Hartwell Reservoirs. The files are provided in a compressed folder.

Prunty, Robert

From: Talbot, Craig
Sent: Tuesday, December 05, 2006 10:54 AM
To: Headland, Louise
Cc: Prunty, Robert; Prebula, John; Matthews, Loran; Jackson, Thomas H; Samad, Mustafa; Zheng, Yifan
Subject: FW: Draft RAI for Section 2.4 - Hydrology

Attachments: WCMDamSections.pdf; LBC&W Letter.pdf; SSAR Section 2_4_4.doc

Louise:

In response to the formal RAI for SSAR Section 2.4, I am providing you the following:

1. The link to the U.S. Army Corps of Engineers Water Control Manual for the Savannah River. This contains much of the information for the U.S Army Corps of Engineers Dams on the Savannah River (Thurmond (aka Clark) Dam, Russell Dam, and Hartwell Dam).

http://water.sas.usace.army.mil/manual/index.htm

2. A PDF file with copies of the cross sections for Thurmond, Russell, and Hartwell Dams. This information is from the U.S. Army Corps of Engineers Water Control Manual, but is not in the online version for security reasons. The file is attached (WCDMDamSections.pdf).

WCMDamSections.pdf (437 KB)

3. The letter describing Keowee and Jocassee Dams. This is the only information available for these dams. Attempts to obtain more information on these dams from the Federal Energy Regulatory Commission has yet to yield any results. The file is attached (LBC&W Letter.pdf)

LBC&W Letter.pdf (4 MB)

4. I am providing a links to ESRI shape files for the USGS Maps on the G&HES share drive. They are very large and would not transmit through email. The project will either need to put them in eroom or send a CD. In case they want to send a CD I will give you one.

R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\Georgia\Burke County\topographic_images_MDRGNRCS_240581_01.zip
R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\Georgia\Columbia County\topographic_images_MDRGNRCS_226638_01.zip
R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\Georgia\Hart County\topographic_images_MDRGNRCS_233441_01.zip
R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\Georgia\Richmond County\topographic_images_MDRGNRCS_234431_01.zip
R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\South Carolina\Abbeville County\topographic_images_MDRGNRCS_221372_01.zip
R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\South Carolina\Aiken County\topographic_images_MDRGNRCS_221373_01.zip

R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\South Carolina\Barnwell County\topographic_images_MDRGNCGC_221375_01.zip
R:\Projects-Active\Southern-ALWR-ESP\H&H\Data\USGS Quads\South Carolina\Oconee County\topographic_images_MDRGNRCS_233447_01.zip

5. The HEC-RAS Dam Break model. This is the computer model for the Dam Break Analysis. Links to the files are attached as they are also large. I will also include them on the CD.

R:\Projects-Active\Southern-ALWR-ESP\H&H\Calculations\Dam Break\HEC-RAS Files\Final Model\RevB Final Model\DamBreak.zip

6. Below are links to scanned copies of the Bathymetry maps used for the upstream reservoirs. I will also include these files on the CD.

R:\Projects-Active\Southern-ALWR-ESP\H&H\Drawings\Bathymetry\Thurmond(Front).jpeg
R:\Projects-Active\Southern-ALWR-ESP\H&H\Drawings\Bathymetry\Thurmond(Back).jpeg
R:\Projects-Active\Southern-ALWR-ESP\H&H\Drawings\Bathymetry\Russell.jpeg
R:\Projects-Active\Southern-ALWR-ESP\H&H\Drawings\Bathymetry\HartwellWest(Front).jpeg
R:\Projects-Active\Southern-ALWR-ESP\H&H\Drawings\Bathymetry\HartwellWest(Back).jpeg
R:\Projects-Active\Southern-ALWR-ESP\H&H\Drawings\Bathymetry\HartwellEast(Front).jpeg
R:\Projects-Active\Southern-ALWR-ESP\H&H\Drawings\Bathymetry\HartwellEast(Back).jpeg

7. I have also attached a word file describing all the documents I just sent you.

SSAR Section
2_4_4.doc (27 KB)...

Let me know if you need anything else.

Craig Talbot

From: Talbot, Craig
Sent: Tuesday, October 24, 2006 9:11 AM
To: Headland, Louise
Subject: RE: Draft RAI for Section 2.4 - Hydrology

Louise:

I authored SSAR Section 2.4.4, Potential Dam Failures. Some of the information they are requesting is already supplied in the SSAR (i.e. dam locations). Additional information that I can supply for this section includes the following items:

1. An electronic link to the U.S. Army Corps of Engineers Water Control Manual for the Savannah River. This manual contains much of the physical data for the three COE dams and reservoirs (Thurmond, Russell, and Hartwell Dams).

2. PDF copies of cross sections for the 3 COE dams (This data is not available for the utility owned Keowee and Jocasee dams).

3. PDF copy of a letter describing physical properties for the Keowee and Jocasse dams and reservoirs.

4. Electronic version of USGS quads near the site, along the Savannah River, and near the 3 COE dam locations.

5. The HEC-RAS dam break model input and output files. The model contains all of the dam and Savannah River cross section data used to model the dam breaches.

Note that there are some bathymetry maps that I used to establish cross sections in Thurmond and Russell reservoirs, however, they are only available in hard copy and are too large to scan. I do not know if we should attempt to have graphics scan them, or just not worry about sending them. We could possibly Xerox copy them and send the NRC a hard copy.

Craig Talbot
Ext. 7656

SSAR Sections 2.4.5 thru 2.4.11
Data Provided in Response to RAI 2.4.1

For SSAR Sections 2.4.5 thru 2.4.11 the below materials are provided:

Section 2.4.5 – Probable Maximum Storm Surge and Seiche Flooding

Background material available as electronic references, which are already provided.

Section 2.4.6 – Probable Maximum Tsunami Flooding

Background material available as electronic references, which are already provided.

Section 2.4.7 – Ice Effects

Air Temperature

Air temperature data from the Vogtle site are included in the folder:

Folder: R:\Projects-Active\Southern-ALWR-ESP\RAIs\Hydrology\2.4.1-1\Electronic data\2.4.5 through 2.4.11\VEGP Air Temp Data

Files:
- Vogtle Temperature 1984.xls
- Vogtle Temperature 1985.xls
- Vogtle Temperature 1986.xls
- Vogtle Temperature 1987.xls
- Vogtle Temperature 1988.xls
- Vogtle Temperature 1989.xls
- Vogtle Temperature 1990.xls
- Vogtle Temperature 1992.xls
- Vogtle Temperature 1993.xls
- Vogtle Temperature 1994.xls
- Vogtle Temperature 1995.xls
- Vogtle Temperature 1996.xls
- Vogtle Temperature 1997.xls
- Vogtle Temperature 1998.xls
- Vogtle Temperature 1999.xls
- Vogtle Temperature 2000.xls
- Vogtle Temperature 2001.xls
- Vogtle Temperature 2002.xls

Water Temperature

Water temperature data are available as electronic reference, which is provided in the folder:

Folder: R:\Projects-Active\Southern-ALWR-ESP\RAIs\Hydrology\2.4.1-1\Electronic data\2.4.5 through 2.4.11\Savannah River Water Temp

Files: (Dyar & Alhadeff 1997).pdf

Ice Jam Events

Ice jam occurrences in the Savannah River are referenced to the Ice Jam Database of US Army Corps of Engineers. The website location is given below:

http://www.crrel.usace.army.mil/ierd/ijdb/

Description of Cooling Water System

Description provided is primarily from ER Section 3.4.

Section 2.4.8 – Cooling Water Canals and Reservoirs

Background material for this section is taken from ER Section 3.4.

Section 2.4.9 – Channel Diversions

Background data obtained from recent and old USGS quad maps (hardcopy). Copies of old maps (1971) were made available by SNC. One figure showing water level variation at Augusta on the Savannah River was obtained from USGS website listed below:

http://nwis.waterdata.usgs.gov/ga/nwis/dv?cb_00060=on&format=gif_default&begin_date=1925-10-01&end_date=2005-09-30&site_no=02197000&referred_module=sw

Section 2.4.10 – Flood Protection Requirements

Background materials are available in other parts of the SSAR (Sec 2.4.2 and 2.4.3).

Section 2.4.11 – Low Water Considerations

Daily mean streamflow data for USGS stations at Augusta, Jackson, and Burtons Ferry are provided in the folder:

Folder: R:\Projects-Active\Southern-ALWR-ESP\RAIs\Hydrology\2.4.1-1\Electronic data\2.4.5 through 2.4.11\Daily Mean Flow

Files: USGS mean-daily flow_Augusta 40-03_April21.txt
USGS mean-daily flow_Augusta 84-39_April23.txt
USGS mean-daily flow_BurtonsFerry 40-03_April20.txt
USGS mean-daily flow_Jackson 72-02_April20.txt

USGS website locations for the gages are listed below:

Augusta:
http://nwis.waterdata.usgs.gov/ga/nwis/nwisman/?site_no=02197000&agency_cd=USGS

Jackson: Website not available at present (December 7, 2006)

Burtons Ferry:
http://nwis.waterdata.usgs.gov/ga/nwis/nwisman/?site_no=02197500&agency_cd=USGS

Instantaneous measured stream discharge at USGS Waynesboro gage is provided in the folder:

Folder: R:\Projects-Active\Southern-ALWR-ESP\RAIs\Hydrology\2.4.1-1\Electronic data\2.4.5 through 2.4.11\Measured Discharge near VEGP site

File: (USGS 2006j).pdf

USGS website address for the gage station is listed below:

Waynesboro:
http://nwis.waterdata.usgs.gov/ga/nwis/nwisman/?site_no=021973269&agency_cd=USGS

River bathymetry data near the proposed intake location is provided in the folder:

Folder: R:\Projects-Active\Southern-ALWR-ESP\RAIs\Hydrology\2.4.1-1\Electronic data\2.4.5 through 2.4.11\Bathymetry near VEGP 2006

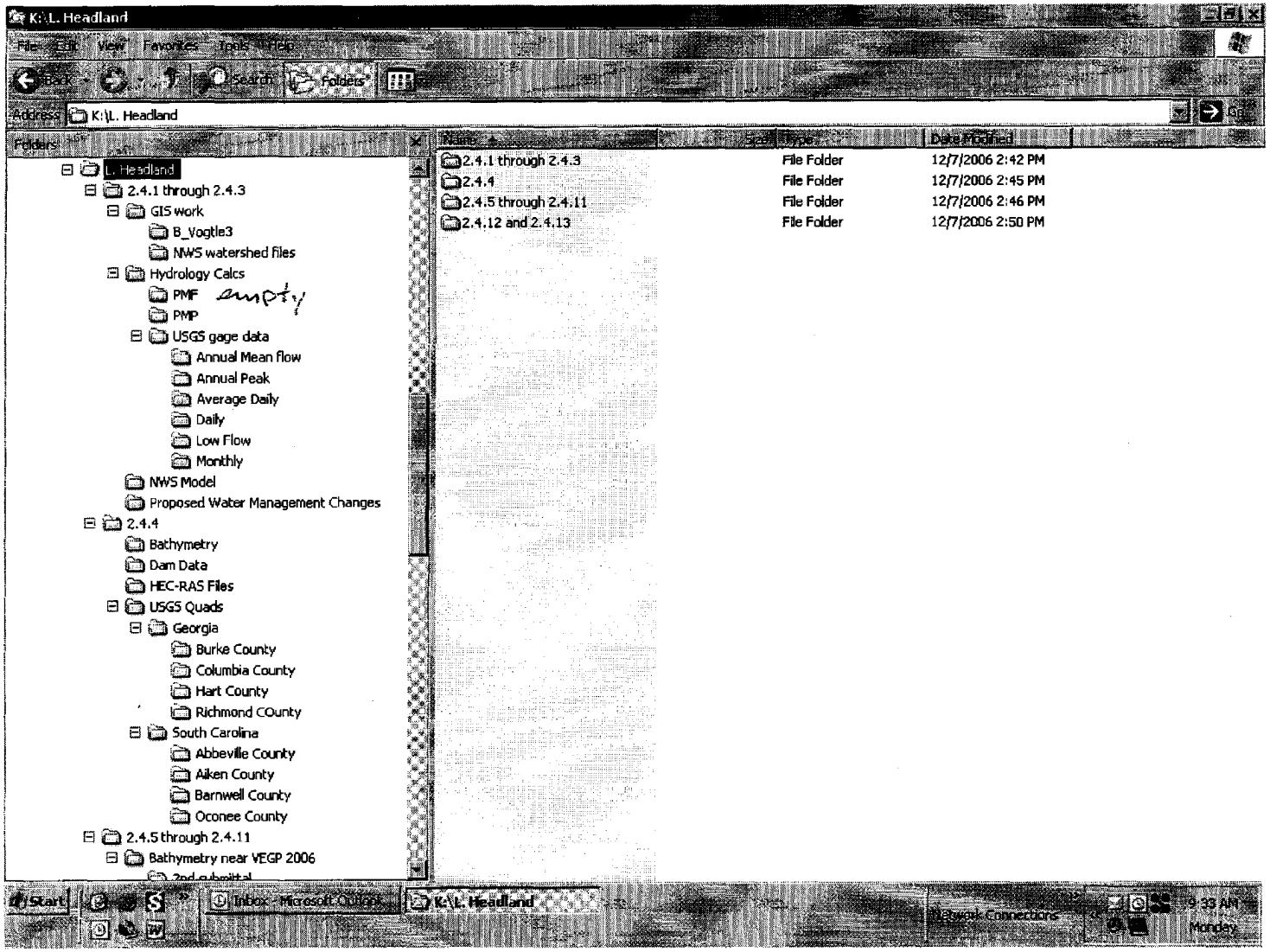
Files: 2nd submittal
Intake Cross Section Points.xls
Intake Cross Section Points.xyz

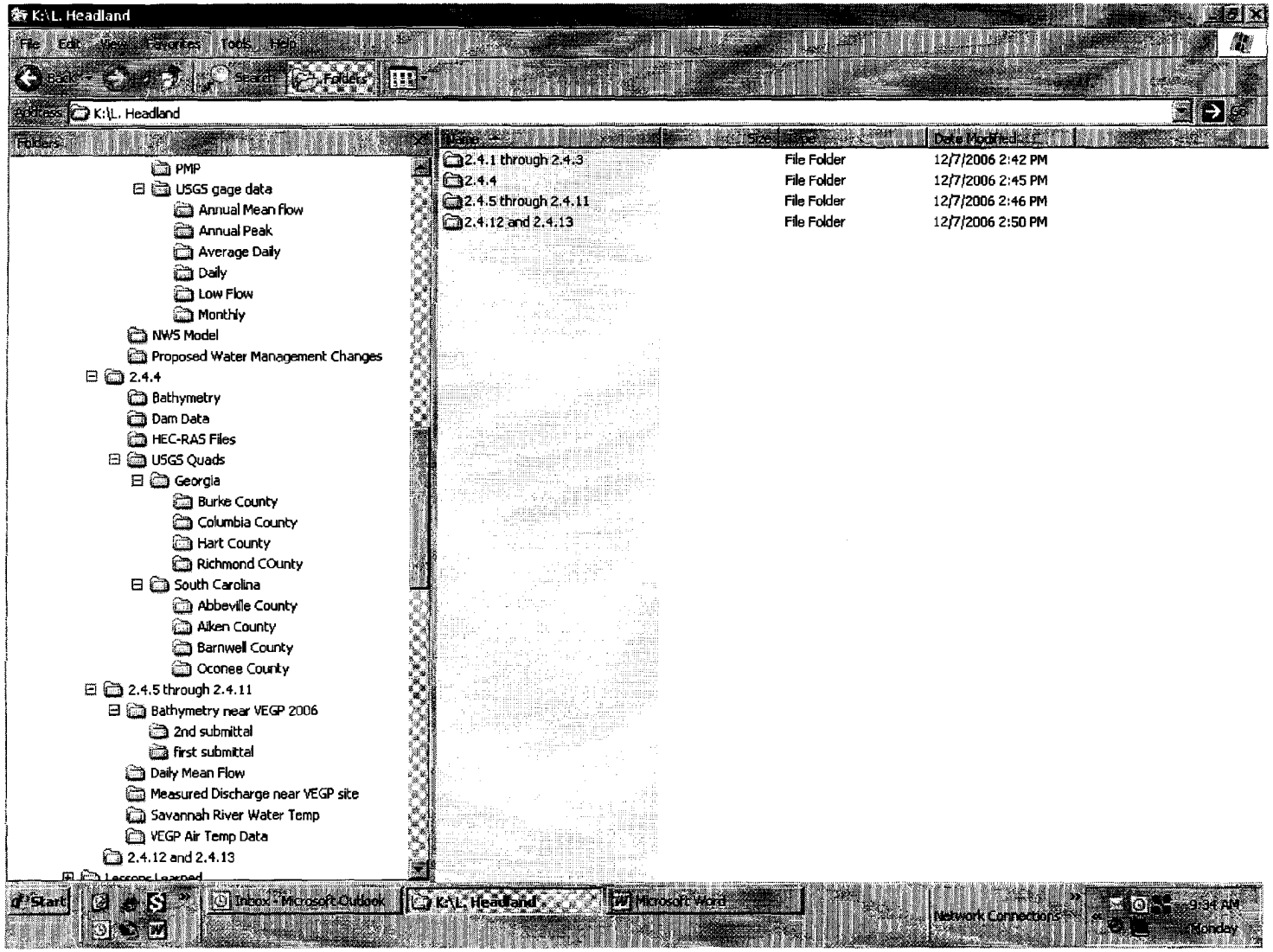
Plant Vogtle River Survey ACAD2000.dwg

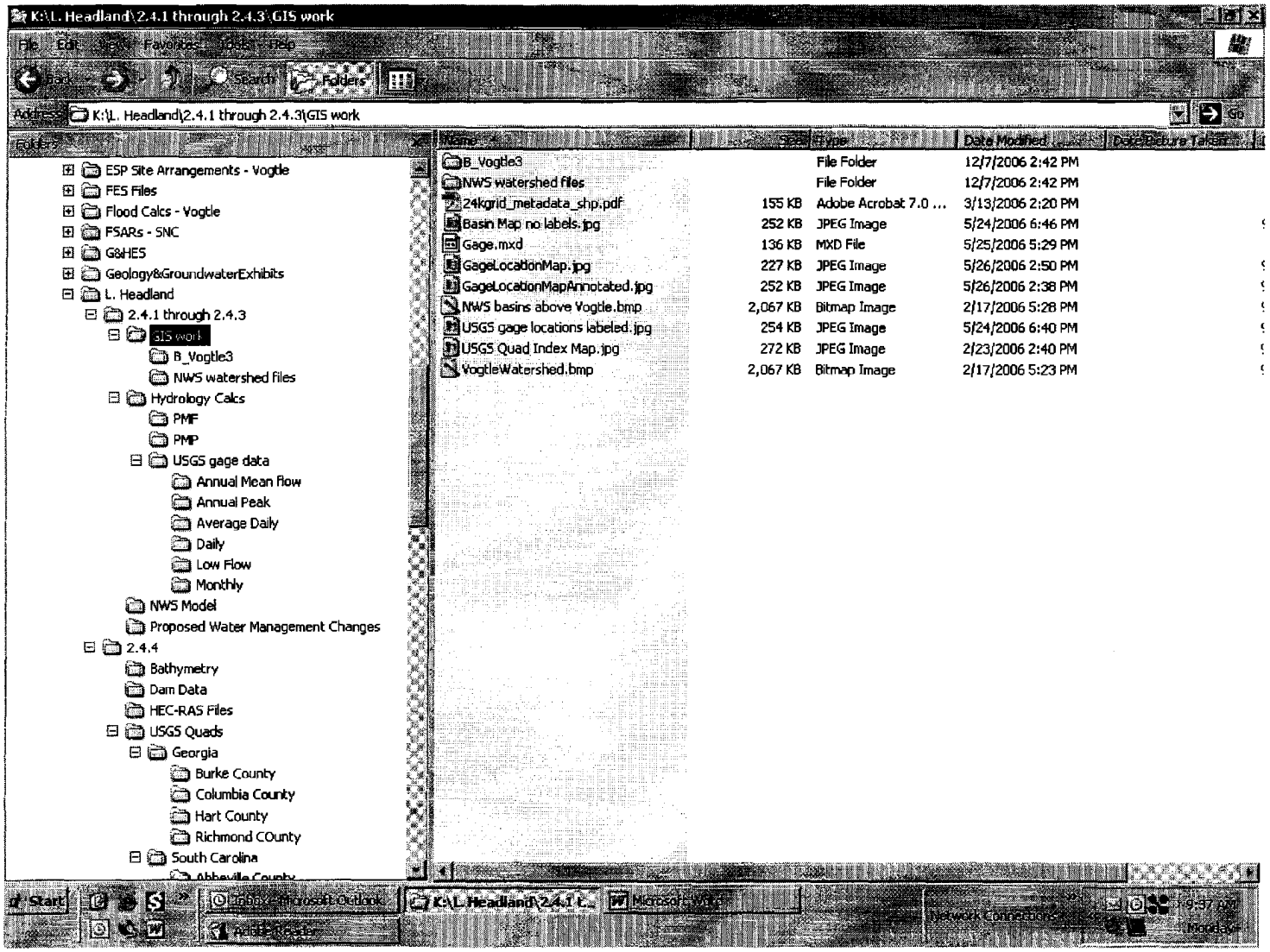
first submittal

Additional bathymetry survey area.pdf
Intake Cross Section Points..xls
Plant Vogtle River Survey Intake Cross Sections.dwg

Plant Vogtle River Survey Discharge Cross Sections.pdf
Plant Vogtle River Survey Intake Cross Sections.pdf
Plant Vogtle River Survey Topo.pdf


K:\L. Headland
File Edit View Favorites Tools Help
Back Search Folders
Address K:\L. Headland
Go
Folders
L. Headland
2.4.1 through 2.4.3
GIS work
B_Vogtle3
NWS watershed files
Hydrology Calcs
PMF empty
PMP
USGS gage data
Annual Mean flow
Annual Peak
Average Daily
Daily
Low Flow
Monthly
NWS Model
Proposed Water Management Changes
2.4.4
Bathymetry
Dam Data
HEC-RAS Files
USGS Quads
Georgia
Burke County
Columbia County
Hart County
Richmond COunty
South Carolina
Abbeville County
Aiken County
Barnwell County
Oconee County
2.4.5 through 2.4.11
Bathymetry near VEGP 2006
Name
Size
Type
Date Modified
2.4.1 through 2.4.3 File Folder 12/7/2006 2:42 PM
2.4.4 File Folder 12/7/2006 2:45 PM
2.4.5 through 2.4.11 File Folder 12/7/2006 2:46 PM
2.4.12 and 2.4.13 File Folder 12/7/2006 2:50 PM
Start
Inbox - Microsoft Outlook
K:\L. Headland
Network Connections
9:33 AM
Monday


K:\L. Headland
File Edit View Favorites Tools Help
Back Search Folders
Address K:\L. Headland
Folders
PMP
USGS gage data
Annual Mean flow
Annual Peak
Average Daily
Daily
Low Flow
Monthly
NWS Model
Proposed Water Management Changes
2.4.4
Bathymetry
Dam Data
HEC-RAS Files
USGS Quads
Georgia
Burke County
Columbia County
Hart County
Richmond COunty
South Carolina
Abbeville County
Aiken County
Barnwell County
Oconee County
2.4.5 through 2.4.11
Bathymetry near VEGP 2006
2nd submittal
first submittal
Daily Mean Flow
Measured Discharge near VEGP site
Savannah River Water Temp
VEGP Air Temp Data
2.4.12 and 2.4.13
Name Size Type Date Modified
2.4.1 through 2.4.3 File Folder 12/7/2006 2:42 PM
2.4.4 File Folder 12/7/2006 2:45 PM
2.4.5 through 2.4.11 File Folder 12/7/2006 2:46 PM
2.4.12 and 2.4.13 File Folder 12/7/2006 2:50 PM
Start
Inbox - Microsoft Outlook
K:\L. Headland
Microsoft Word
Network Connections
9:34 AM
Monday


K:\L. Headland\2.4.1 through 2.4.3\GIS work
File Edit View Favorites Tools Help
Back Search Folders
Address K:\L. Headland\2.4.1 through 2.4.3\GIS work
Go
Folders
ESP Site Arrangements - Vogtle
FES Files
Flood Calcs - Vogtle
FSARs - SNC
G&HES
Geology&GroundwaterExhibits
L. Headland
2.4.1 through 2.4.3
GIS work
B_Vogtle3
NWS watershed files
Hydrology Calcs
PMF
PMP
USGS gage data
Annual Mean flow
Annual Peak
Average Daily
Daily
Low Flow
Monthly
NWS Model
Proposed Water Management Changes
2.4.4
Bathymetry
Dam Data
HEC-RAS Files
USGS Quads
Georgia
Burke County
Columbia County
Hart County
Richmond COunty
South Carolina
Name Size Type Date Modified Date Picture Taken
B_Vogtle3 File Folder 12/7/2006 2:42 PM
NWS watershed files File Folder 12/7/2006 2:42 PM
24kgrid_metadata_shp.pdf 155 KB Adobe Acrobat 7.0 ... 3/13/2006 2:20 PM
Basin Map no labels.jpg 252 KB JPEG Image 5/24/2006 6:46 PM
Gage.mxd 136 KB MXD File 5/25/2006 5:29 PM
GageLocationMap.jpg 227 KB JPEG Image 5/26/2006 2:50 PM
GageLocationMapAnnotated.jpg 252 KB JPEG Image 5/26/2006 2:38 PM
NWS basins above Vogtle.bmp 2,067 KB Bitmap Image 2/17/2006 5:28 PM
USGS gage locations labeled.jpg 254 KB JPEG Image 5/24/2006 6:40 PM
USGS Quad Index Map.jpg 272 KB JPEG Image 2/23/2006 2:40 PM
VogtleWatershed.bmp 2,067 KB Bitmap Image 2/17/2006 5:23 PM
Start
Inbox - Microsoft Outlook
K:\L. Headland\2.4.1 t...
Microsoft Word
Adobe Reader
Network Connections
9:37 AM
Monday

K:\L. Headland\2.4.1 through 2.4.3\GIS work\B_Vogtle3

File Edit View Favorites Tools Help

Back Search Folders

Address K:\L. Headland\2.4.1 through 2.4.3\GIS work\B_Vogtle3 Go

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
    - NWS Model
    - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
    - USGS Quads
      - Georgia
        - Burke County
        - Columbia County
        - Hart County
        - Richmond COunty
      - South Carolina
        - Abbeville County

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BasinH12.sbn	4 KB	SBN File	2/24/2006 3:28 PM
BasinH12.sbx	1 KB	SBX File	2/24/2006 3:28 PM
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BasinH12.shp.xml	130 KB	XML Document	2/24/2006 3:31 PM
BasinH12.shx	3 KB	SHX File	2/24/2006 3:31 PM
SavanaRiverPoly.dbf	2 KB	DBF File	2/24/2006 3:31 PM
SavanaRiverPoly.prj	1 KB	PRJ File	2/24/2006 3:31 PM
SavanaRiverPoly.sbn	1 KB	SBN File	2/24/2006 3:31 PM
SavanaRiverPoly.sbx	1 KB	SBX File	2/24/2006 3:31 PM
SavanaRiverPoly.shp	79 KB	SHP File	2/24/2006 3:31 PM
SavanaRiverPoly.shp.xml	11 KB	XML Document	2/24/2006 3:31 PM
SavanaRiverPoly.shx	1 KB	SHX File	2/24/2006 3:31 PM
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SC_hu12polygon.sbn	10 KB	SBN File	2/24/2006 4:28 PM
SC_hu12polygon.sbx	1 KB	SBX File	2/24/2006 4:28 PM
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K:\L. Headland\2.4.1 through 2.4.3\GIS work\NWS watershed files

File Edit View Favorites Tools Help

Back Search Folders

Address K:\L. Headland\2.4.1 through 2.4.3\GIS work\NWS watershed files

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
    - NWS Model
    - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
    - USGS Quads
      - Georgia
        - Burke County
        - Columbia County
        - Hart County
        - Richmond COunty
      - South Carolina
        - Abbeville County

Name	Size	Type	Date Modified
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USGSgagesNatCoords.txt	1 KB	Text Document	5/22/2006 5:33 PM
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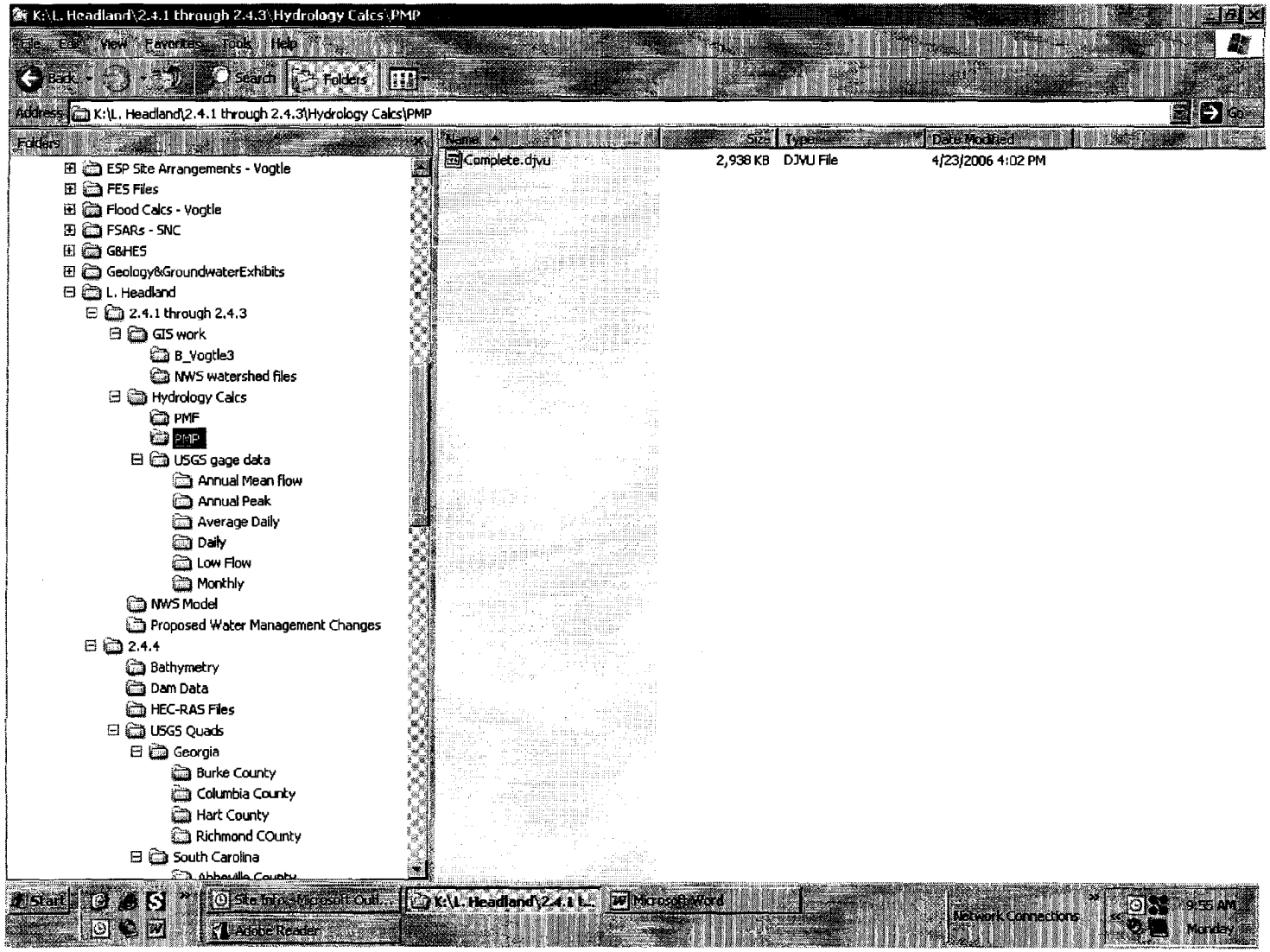
K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\PMP
File Edit View Favorites Tools Help
Back Search Folders
Address K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\PMP
Go
Folders
ESP Site Arrangements - Vogtle
FES Files
Flood Calcs - Vogtle
FSARs - SNC
GB&HES
Geology&GroundwaterExhibits
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2.4.1 through 2.4.3
GIS work
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Annual Mean flow
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Bathymetry
Dam Data
HEC-RAS Files
USGS Quads
Georgia
Burke County
Columbia County
Hart County
Richmond COunty
South Carolina
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Microsoft Word
Adobe Reader
Network Connections
9:55 AM
Monday

K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\USGS gage data

File Edit View Favorites Tools Help

Back Search Folders

Address K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\USGS gage data

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
      - NWS Model
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    - Bathymetry
    - Dam Data
    - HEC-RAS Files
    - USGS Quads
      - Georgia
        - Burke County
        - Columbia County
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        - Richmond COunty
      - South Carolina
        - Abbeville County

Name	Size	Type	Date Modified	Date Picture Taken
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Monthly		File Folder	12/7/2006 2:42 PM	
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Savannah River gages2.txt	4 KB	Text Document	1/13/2006 6:47 PM	
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File Edit View Favorites Tools Help

Back Search Folders

Address: K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\USGS gage data\Annual Mean flow

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
      - NWS Model
      - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
    - USGS Quads
      - Georgia
        - Burke County
        - Columbia County
        - Hart County
        - Richmond COunty
      - South Carolina
        - Abbeville County

Name	Size	Type	Date Modified
AverageAnnualQ.pdf	50 KB	Adobe Acrobat 7.0 ...	3/16/2006 6:16 PM
BurtonsFerryAverageAnnualQ.pdf	42 KB	Adobe Acrobat 7.0 ...	4/14/2006 4:44 PM
JacksonAnnualMean.pdf	38 KB	Adobe Acrobat 7.0 ...	4/1/2006 4:52 PM

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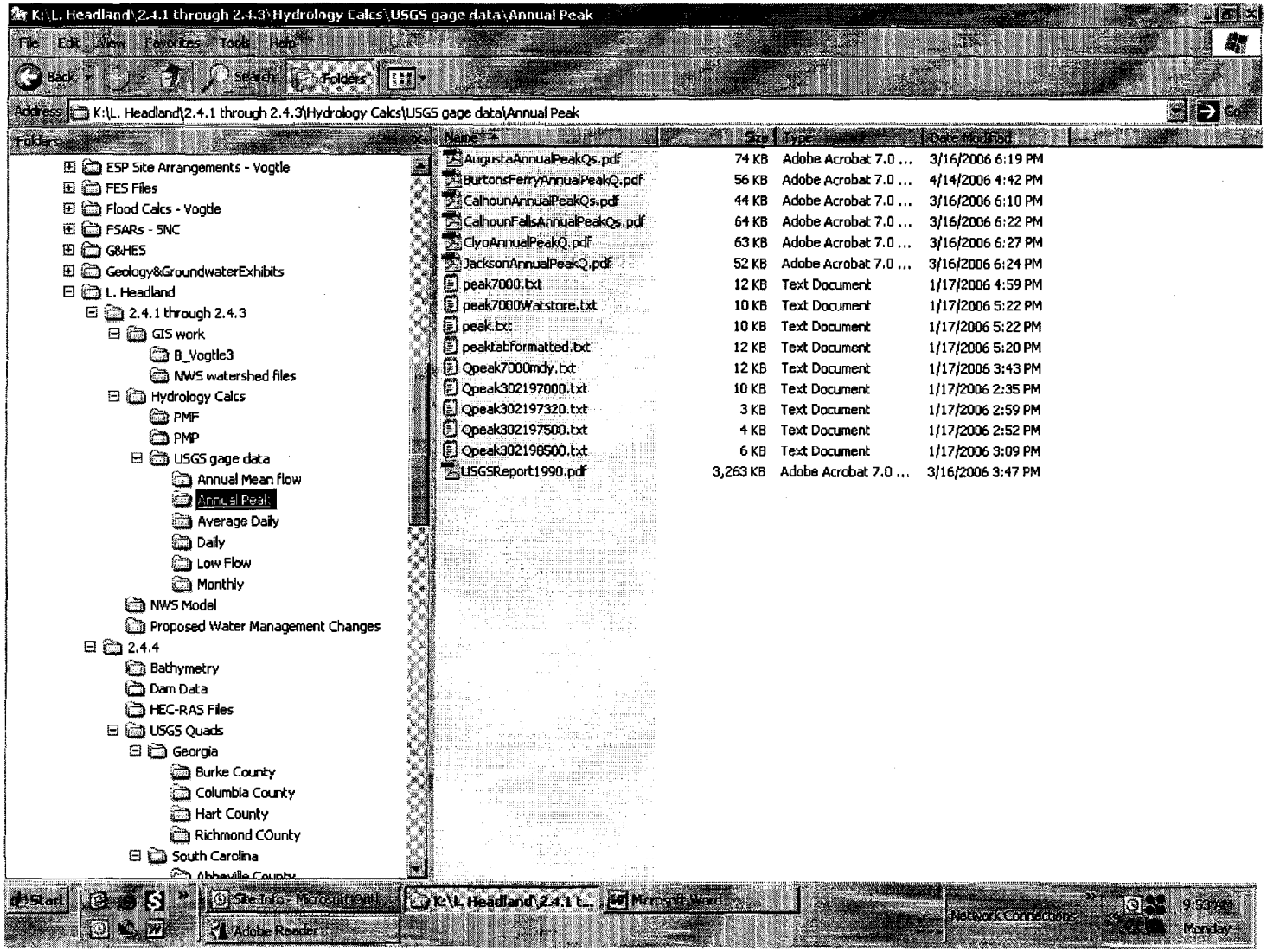
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Back Search Folders
Address K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\USGS gage data\Annual Peak
Folders
ESP Site Arrangements - Vogtle
FES Files
Flood Calcs - Vogtle
FSARs - SNC
G&HES
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2.4.4
Bathymetry
Dam Data
HEC-RAS Files
USGS Quads
Georgia
Burke County
Columbia County
Hart County
Richmond COunty
South Carolina
Name Size Type Date Modified
AugustaAnnualPeakQs.pdf 74 KB Adobe Acrobat 7.0 ... 3/16/2006 6:19 PM
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JacksonAnnualPeakQ.pdf 52 KB Adobe Acrobat 7.0 ... 3/16/2006 6:24 PM
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peak.txt 10 KB Text Document 1/17/2006 5:22 PM
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Microsoft Word
Adobe Reader
Network Connections
Monday

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File Edit View Favorites Tools Help

Back Search Folders

Address K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\USGS gage data\Average Daily

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
      - NWS Model
      - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
    - USGS Quads
      - Georgia
        - Burke County
        - Columbia County
        - Hart County
        - Richmond COunty
      - South Carolina
        - Abbeville County

Name	Size	Type	Date Modified
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ClyoGAAnnualAvgDailyQs.pdf	58 KB	Adobe Acrobat 7.0 ...	3/15/2006 9:35 AM
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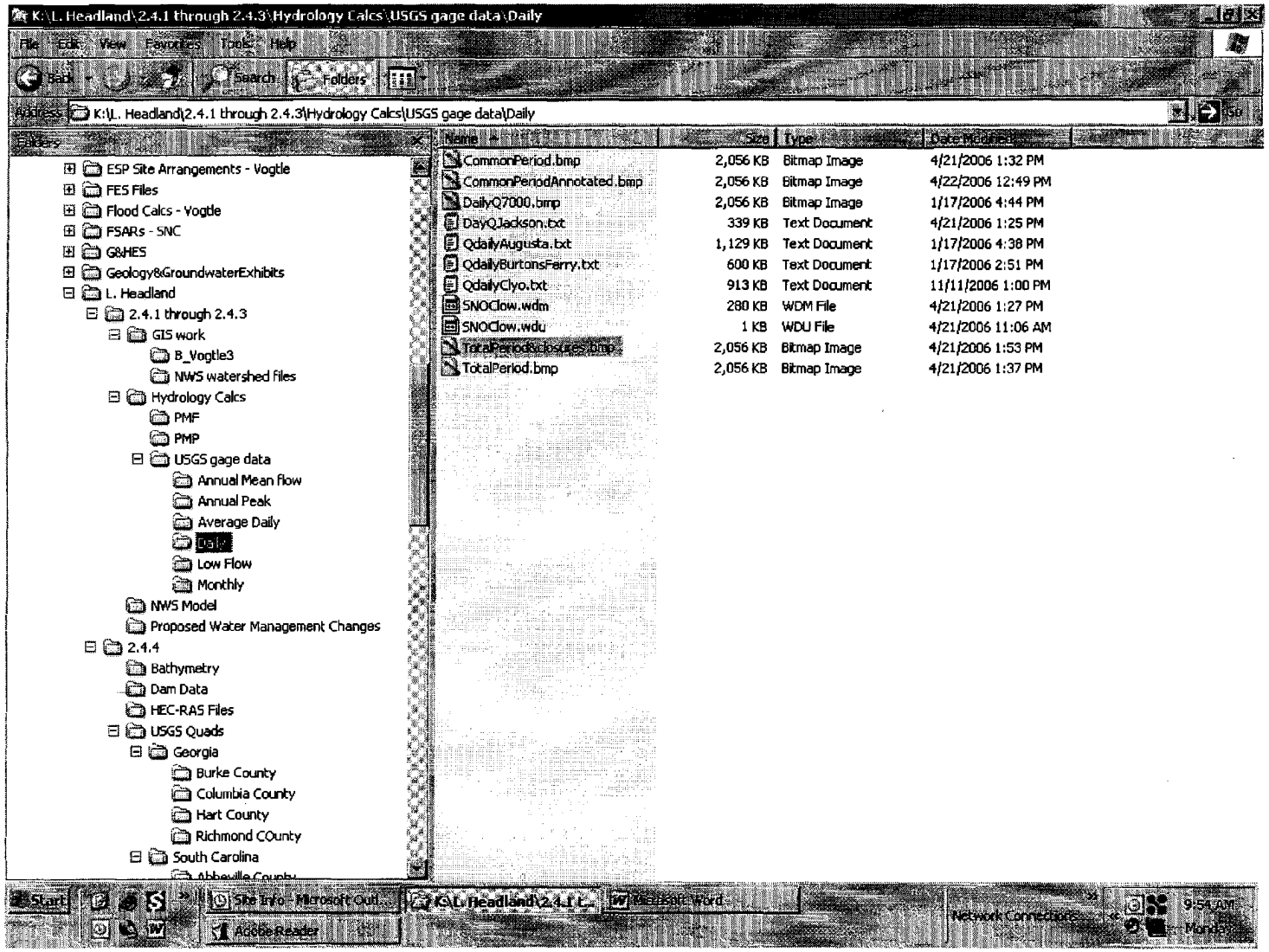
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Back Search Folders
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Folders
ESP Site Arrangements - Vogtle
FES Files
Flood Calcs - Vogtle
FSARs - SNC
G&HES
Geology&GroundwaterExhibits
L. Headland
2.4.1 through 2.4.3
GIS work
B_Vogtle3
NWS watershed files
Hydrology Calcs
PMF
PMP
USGS gage data
Annual Mean flow
Annual Peak
Average Daily
Daily
Low Flow
Monthly
NWS Model
Proposed Water Management Changes
2.4.4
Bathymetry
Dam Data
HEC-RAS Files
USGS Quads
Georgia
Burke County
Columbia County
Hart County
Richmond COunty
South Carolina
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DailyQ7000.bmp 2,056 KB Bitmap Image 1/17/2006 4:44 PM
DayQJackson.txt 339 KB Text Document 4/21/2006 1:25 PM
QdailyAugusta.txt 1,129 KB Text Document 1/17/2006 4:38 PM
QdailyBurtonsFerry.txt 600 KB Text Document 1/17/2006 2:51 PM
QdailyClyo.txt 913 KB Text Document 11/11/2006 1:00 PM
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SNOClow.wdu 1 KB WDU File 4/21/2006 11:06 AM
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TotalPeriod.bmp 2,056 KB Bitmap Image 4/21/2006 1:37 PM
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Microsoft Word
Adobe Reader
Network Connections
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Monday

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File Edit View Favorites Tools Help

Back Search Folders

Address K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\USGS gage data\Low Flow

Folders

- E5P Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
      - NWS Model
      - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
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      - South Carolina
        - Abbeville County

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File Edit View Favorites Tools Help

Back Search Folders

Address K:\L. Headland\2.4.1 through 2.4.3\Hydrology Calcs\USGS gage data\Monthly

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
      - NWS Model
      - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
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      - Georgia
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Name	Size	Type	Date Modified
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ClyoMonthlyQs.pdf	87 KB	Adobe Acrobat 7.0 ...	3/16/2006 6:28 PM
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Back Search Folders

Address K:\L. Headland\2.4.1 through 2.4.3\NWS Model

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
      - NWS Model
      - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
    - USGS Quads
      - Georgia
        - Burke County
        - Columbia County
        - Hart County
        - Richmond COunty
      - South Carolina
        - Abbeville County

Name	Size	Type	Date Modified
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HUCsInNWSbasin.dbf.xml	130 KB	XML Document	3/1/2006 12:57 PM
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NWSRFS documentation.txt	1 KB	Text Document	1/18/2006 12:35 PM
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NWSsubbasins.dbf	2 KB	DBF File	3/1/2006 10:09 AM
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NWSwatersheds.dwg	372 KB	DWG File	1/26/2006 1:21 AM
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K:\L. Headland\2.4.1 through 2.4.3\Proposed Water Management Changes

File Edit View Favorites Tools Help

Back Search Folders

Address: K:\L. Headland\2.4.1 through 2.4.3\Proposed Water Management Changes

Folders

- ESP Site Arrangements - Vogtle
- FES Files
- Flood Calcs - Vogtle
- FSARs - SNC
- G&HES
- Geology&GroundwaterExhibits
- L. Headland
  - 2.4.1 through 2.4.3
    - GIS work
      - B_Vogtle3
      - NWS watershed files
    - Hydrology Calcs
      - PMF
      - PMP
      - USGS gage data
        - Annual Mean flow
        - Annual Peak
        - Average Daily
        - Daily
        - Low Flow
        - Monthly
    - NWS Model
    - Proposed Water Management Changes
  - 2.4.4
    - Bathymetry
    - Dam Data
    - HEC-RAS Files
    - USGS Quads
      - Georgia
        - Burke County
        - Columbia County
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        - Richmond COunty
      - South Carolina
        - Abbeville County

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www.sas.usace.army.mil_projects_projects_oatescrk.pdf	64 KB	Adobe Acrobat 7.0 ...	3/15/2006 10:15 AM
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    - Hydrology Calcs
      - PMF
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      - USGS gage data
        - Annual Mean flow
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HartwellWest(Front).jpeg	12,170 KB	JPEG Image	12/5/2006 10:21 AM		9624 :
Russell.jpeg	11,890 KB	JPEG Image	12/5/2006 10:11 AM		9608 :
Thurmond(Back).jpeg	16,024 KB	JPEG Image	12/5/2006 10:08 AM		9592 :
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