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Docket No.: 52-011

AR-08-0025

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle Early Site Permit Application
Response to Hydrology Safety Evaluation Report Open Item Followup Questions

Ladies and Gentlemen:

By letter dated August 30, 2007, the U.S. Nuclear Regulatory Commission (NRC) provided Southern Nuclear Operating Company (SNC) with the Safety Evaluation Report (SER) for the Vogtle Early Site Permit (ESP) Application with 41 open items (OIs). SNC responded to the NRC SER OIs in letter AR-07-1773, dated October 15, 2007. The NRC and SNC are continuing to interact on the OI responses and supporting ESP application revisions. On January 10, 2008, a conference call was held between the NRC and SNC in which responses to the SER OIs involving Hydrology were discussed. In that call, the NRC requested that SNC clarify issues related to the Hydrology responses by providing responses to eight (8) follow-up questions. The enclosures to this letter provide SNC's response to the eight Hydrology SER OI follow-up questions.


The SNC contact for this OI follow-up questions letter is J. T. Davis at (205) 992-7692.

D078
NRC

Mr. J. A. (Buzz) Miller states he is a Senior Vice President of Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and to the best of his knowledge and belief, the facts set forth in this letter are true.

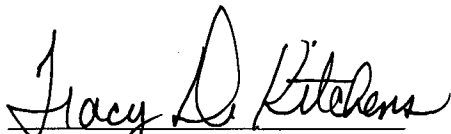
Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY



Joseph A. (Buzz) Miller

Sworn to and subscribed before me this 23 day of January, 2008


Notary Public

Tracy D. Kitchens
Notary Public, DeKalb County, Georgia
My Commission Expires February 24, 2010

My commission expires: _____

JAM/BJS/dmw

- Enclosure 1: Responses to Hydrology SER OI Follow-up Questions
- Enclosure 2: Hydrology Model Input Data Files (CD)

cc: Southern Nuclear Operating Company

Mr. J. B. Beasley, Jr., President and CEO (w/o enclosures)
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations (w/o enclosures)
Mr. T. E. Tynan, Vice President - Vogtle (w/o enclosures)
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File AR.01.01.06

Nuclear Regulatory Commission

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Mr. O. C. Harper, Vice President, Resource Planning and Nuclear Development (w/o enclosures)

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Tetra Tech NUS, Inc.

Ms. K. K. Patterson, Project Manager (w/o enclosures)

Southern Nuclear Operating Company

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Enclosure 1

Responses to Hydrology SER OI Follow-up Questions

Hydrology SER OI Follow-up Questions

1. Identify the code used to create the two-dimensional groundwater analysis.

Response:

The code used for the model was Visual MODFLOW, version 4.2.0.151. Visual MODFLOW is a pre- and post-processing engine for the standard USGS MODFLOW code. Visual MODFLOW incorporates different versions and modules of MODFLOW. The Vogtle Electric Generation Plant (VEGP) model used MODFLOW2000 and the MODPATH. This software has been verified and approved for use on this project according to Bechtel procedures.

2. Provide the Calculation Package(s) including all details of calibration and forward simulation of each model (case).

Response:

Pre-Construction Model

A summary of the calculation package including details of the calibration and forward simulation is provided below. The complete package and model are available for NRC review at the Bechtel office in Frederick, MD.

The model was calibrated for the pre-construction condition at the VEGP site by comparing the model simulated groundwater head values against the observed groundwater levels. The groundwater level data observed at 22 wells during the month of March 2006 were used to calibrate the model. Stream flow data were also used in the pre-construction model calibration. Stream flow data in the stream draining Mallard Pond was collected in June and July 1985 and documented in a calculation in support of the construction of Units 1 and 2. Groundwater elevation and stream flow data are included in the "Existing" folder in the attached CD.

The model was calibrated by varying the hydraulic conductivity and the aquifer recharge rate, and comparing the model simulated groundwater head values against the observed groundwater levels. The initial model calibration suggested that a much higher hydraulic conductivity value should be used for the area surrounding Mallard Pond in order to match the observed hydraulic gradients of groundwater contour maps shown in SSAR Figure 2.4.12-10 and especially the water level at well OW-1005. The hydraulic conductivity values for the native materials were varied from 40 to 80 ft/day for the area surrounding Mallard Pond and 10 to 20 ft/day for the areas outside of Mallard Pond and power block/ auxiliary buildings. The aquifer recharge rate was varied from 6 in/yr to 10 in/yr for unpaved areas across the model domain to account for variations in surficial geology, vegetative cover, and local land use patterns. For paved areas, the net recharge rate in the model was set equal to zero.

By executing a series of model runs with different combinations of hydraulic conductivity and recharge values, the three best performing model runs were identified as Case 1 (Base case), Case 2 and Case 3. These three cases represent alternative conceptual models, i.e., different sets of assumptions, for the site. The key input parameters used for these three model runs are summarized in Table 1 below.

Table 1: Key Input Parameters Used for the Model Runs Case 1, Case 2 and Case 3

Model Inputs	Case 1 (Base case)	Case 2	Case 3
Hydraulic conductivity for fill area under the power block/ auxiliary buildings (ft/day)	70	70	70
Hydraulic conductivity for the area surrounding Mallard Pond (ft/day)	15	60	60
Hydraulic conductivity for the remaining area in the model domain (ft/day)	15	15	15
Recharge at paved areas (in/yr)	0	0	0
Recharge at unpaved areas (in/yr)	8	8	8
Recharge under leakage Pond D (in/yr)	20	20	20
Flow boundary condition for the stream draining to Pond B	Treated as a drain boundary	Treated as a drain boundary	Treated as a constant head boundary

Note: Pond B and Pond D are identified on SSAR Figure 2.4.12-33.

The structural fill material under the power block/auxiliary building area will have a lower fine content than the surrounding native materials. Therefore, the fill material is expected to have higher hydraulic conductivity compared to the surrounding native materials. Hence, the hydraulic conductivity value for the fill material was estimated by scaling-up the calibrated hydraulic conductivity value for the native material (15 ft/day, see Table 1) with the ratio of geometric means of the hydraulic conductivity values of the fill material for Units 1 and 2 (2.32 ft/day) and the native material (0.5 ft/day), both of which are based on slug test data. For the VEGP site, the adopted hydraulic conductivity value for the structural fill material was $15 \text{ ft/day} \times (2.32/0.5) \approx 70 \text{ ft/day}$.

As presented in Table 1, the Base case (Case 1) model run was based on a uniform hydraulic conductivity of 15 ft/day throughout the entire model domain, except for the area under Units 1 and 2 power block/auxiliary buildings. The hydraulic conductivity value used (15 ft/day) is greater than the geometric mean of the hydraulic conductivity values estimated from the slug tests at the site (0.5 ft/day). No pumping tests are available at the site of Units 3 and 4. It is noted that at the nearby site of Units 1 and 2 the geometric mean of the hydraulic conductivity from the pumping test was 60 ft/day, while that from slug tests was 0.6 ft/day for the Barnwell Sands and 2.32 ft/day for tests in the Utley limestone. Considering that the pumping test values in this case were more than an order of magnitude higher than those from the slug tests, it is reasonable to expect the same would apply to the site of units 3 and 4. Pumping tests provide more representative hydraulic conductivity values of average properties at a larger site-wide scale than those tested with slug tests. The calibrated hydraulic conductivity value of 15 ft/day is consistent with the pumping test conductivity values from Units 1 and 2 and those that might be expected in the area of Units 3 and 4.

Two additional model runs were performed: (a) with much higher hydraulic conductivity value for the area surrounding Mallard Pond (Case 2); and (b) changing the flow boundary condition along the stream that drains into Pond B from drain boundary to constant head boundary (Case 3).

The model run performed for Case 2 with a hydraulic conductivity value of 60 ft/day for the area surrounding Mallard Pond was determined to provide the best-fit for the observed water level data at OW-1005 well.

The Case 3 model run that was performed with the same hydraulic conductivity as Case 2 and a constant head boundary condition along the stream that drains into Pond B was determined to provide only a marginal improvement for the water level predictions at OW-1010, OW-1012, and OW-1013 wells.

Hydraulic conductivity values, zones, and the effects of anisotropy were evaluated. It was determined that the best fit to the data was obtained when two zones of hydraulic conductivity were used for the native material. The area surrounding Mallard Pond was modeled with a much higher hydraulic conductivity value of 60 ft/day, which is four times the value used for the remaining area of the model. Both of these values are within the range of hydraulic conductivities of 8.9 ft/day to 343 ft/day obtained from the pumping tests performed during the Units 1 and 2 characterization activities.

The attached CD contains the input files and hydraulic conductivity and recharge spatial zonation coordinates for calibrating the model to existing conditions ("Existing" folder).

Due to the uncertainty in deep infiltration values at the unpaved areas of the VEGP site, the rate of groundwater recharge was varied, with a starting estimate of 85% of the average groundwater recharge to the uppermost unit reported in the 1997 study by Clarke and West for the Savannah River basin of 6.8 in/yr. The best agreement with the observed water levels was obtained with a recharge value of 8 in/yr, or 118% of the average groundwater recharge of 6.8 in/yr. The recharge rates over the paved areas including buildings and parking lots were set at zero. The recharge rate under the leakage pond that was identified as Pond D was set equal to 20 in/yr or about two and half times the value used for the unpaved area.

Post-Construction Model

The post-construction model assumes that Units 3 and 4 will have a finished grade level elevation of approximately 220 ft msl and the bottom of the foundation slab for the safety related containment buildings will be at an elevation of 180.5 ft msl. In constructing the new units, the site will be excavated to remove the in-situ soil down to the principal bearing strata (i.e. Blue Bluff Marl). The elevation of the top of the Blue Bluff Marl at the site ranges from 120 ft to 140 ft msl. The in-situ soil will be replaced with seismically-designed fill material.

Three conceptual post-construction groundwater models were developed based on the three calibrated models discussed above as Case 1, Case 2 and Case 3. The three pre-construction models were modified to account for the hydraulic conductivity of the fill materials associated with the excavated areas for Units 3 and 4 as well as changes in aquifer recharge due to building and parking lot construction, re-grading, and assumed changes in vegetative cover patterns. Paved areas and areas covered by buildings where there would be no recharge were delineated in the model from project drawings. The attached CD contains the input files and hydraulic conductivity and recharge spatial zonation coordinates for calibrating the model to post-construction conditions ("Future" folder).

References:

(Clarke and West 1997) Clarke, J.S. and West C.T., Ground-Water Levels, Predevelopment Ground-Water Flow, and Stream-Aquifer Relations in the Vicinity of Savannah River Site, Georgia and South Carolina: U.S. Geological Survey Water-Resources Investigations Report97-4197, 1997.

3. Provide input files for calibration and forward projections of each model (case).

Response:

All the input files for the Visual MODFLOW groundwater simulations are included in Enclosure 2 (CD). The “Existing” folder contains input files for calibrating the model to existing conditions. The “Future” folder contains input files for the post-construction (Forward Simulations) model.

4. Provide the explicit data set(s) used in calibration, (e.g., which wells if not all, which hydraulic head measurements if not all, average values of hydraulic heads used if more than one in a year, stream flow values or estimates used).

Response:

All the data used in the calibration of the model are provided in the “Existing” folder in Enclosure 2.

5. If not included in input files, provide the coordinates of the spatial zonation of recharge for the calibrated period and the forward projection period, and of hydraulic conductivity.

Response:

All the input files including the coordinates of the spatial zonation of recharge for the calibrated period and the forward projection period, and hydraulic conductivity are included in Enclosure 2. The “Existing” folder contains input files and spatial zonation coordinates for calibrating the model to existing conditions. The “Future” folder contains input files and spatial zonation coordinates for the post-construction (Forward Simulations) model.

6. Provide the Calculation Package(s) for travel time estimates. If not included in the original package, provide details of how hydraulic gradients are estimated, especially the method of calculating weighted averages.

Response:

Groundwater travel time (t) for a particle leaving the Unit 4 auxiliary building was calculated using the following equations:

$$t = L / v$$

$$v = \frac{K}{n_e} \frac{dh}{dl}$$

where L = groundwater pathline length (ft)
 n_e = effective porosity = 0.34 (see Section 2.4.13.1.1. of UFSAR)
 K = hydraulic conductivity (ft/day)
 dh/dl = hydraulic gradient

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The total saturated zone travel time is the sum of the three components: (1) travel through the backfill area with $K = 70$ ft/day, (2) travel in the water table aquifer area with $K = 15$ ft/day, and, (3) travel in the water table aquifer area with $K = 60$ ft/day (i.e. area surrounding Mallard Pond). SSAR Figures 2.4.12-34 to 2.4.12-36 depict the postulated point from the Unit 4 auxiliary building.

Table 2 presents estimated travel times for these three areas in the water table aquifer as 2.0 years (in the backfill area with $K = 70$ ft/day), 5.4 years (in the area with $K = 15$ ft/day), and 0.7 years (in the area with $K = 60$ ft/day).

Summing the above three travel times, the total travel time for a particle leaving the Unit 4 auxiliary building area was estimated to be 8.2 years.

Table 2: Travel Time Analysis - Particle Release Point from Unit 4

Material Type	Hydraulic Conductivity (ft/day)	Upstream Head contour elevation (ft)	Downstream Head contour elevation (ft)	Distance between u/s and d/s head contours (ft)	Average Velocity (ft/day)	Travel Time (day)	Total Distance (ft)	Total Travel Time (day)	Total Travel Time (years)
Backfill materials	70	155	154	350	0.59	595			
	70	154	152.8	183	1.35	136	533	731	2.0
Native materials	15	152.8	152	142	0.25	569			
	15	152	150	167	0.53	315			
	15	150	148	158	0.56	284			
	15	148	146	150	0.59	255			
	15	146	144	133	0.66	201			
	15	144	142	117	0.76	154			
	15	142	140	92	0.96	95			
	15	140	138.5	83	0.79	105	1042	1978	5.4
	Native materials (Mallard Pond area)	60	138.5	138	25	3.53	7		
	60	138	136	175	2.02	87			
	60	136	134	150	2.35	64			
	60	134	132	117	3.03	39			
	60	132	130	100	3.53	28			
	60	130	128	83	4.24	20			
	60	128	126	67	5.29	13			
	60	126	124	50	7.06	7			
	60	124	122	42	8.47	5			
	60	122	120	33	10.59	3	842	272	0.7
Total travel time =								2981	8.2

7. Please explain why the hydraulic conductivity (Table 2.4.12.17 of SSAR) of the backfill material is so high.

Response:

There are no pumping tests either for the fill material or native materials in the water table aquifer. The hydraulic conductivity for the native materials was determined through the model calibration. The calibrated value over most of the model domain was 15 ft/day. The hydraulic conductivity of the fill was estimated based on the hydraulic conductivity for the native materials and using the ratio of the conductivity for the fill and the native materials determined from slug tests.

For the VEGP Units 1 and 2 site, hydraulic conductivity values for the structural fill materials had been determined from slug tests. The geometric mean of these values is 2.32 ft/day. The geometric mean of the hydraulic conductivity of slug tests at the VEGP Units 3 and 4 site is 0.5 ft/day. Therefore, the ratio of the hydraulic conductivity of the fill over that of the native materials is about $2.32 / 0.5 = 4.6$.

In the model it was assumed that the ratio of the hydraulic conductivity of the fill over that of the native materials is also 4.6, which gave a conductivity for the fill of $4.6 \times 15 = 70$ ft/day

8. Explain why there are substantial differences in characterizing aquifer layers between FSAR 1&2 and ESP SAR, especially for:
- (a) Thickness of the Utley limestone layer shown in Figures AX6DD376 vs. Figure 2.5.1-63 in the respective report; and
 - (b) Top elevation of the Blue Bluff Marl layer shown in AX6DD377 vs. Figure 2.5.1-47.

Response:

- (a) The characteristics of the Utley Limestone Member of the Clinchfield Formation within the Barnwell Group were re-evaluated based on both the detailed stratigraphic studies by the Georgia Geological Survey (Huddleston and Summerour, 1996) and the U.S. Geological Survey (Falls and Prowell, 2001) that post-date the FSAR (AX6DD376) for Units 1 and 2 and the extensive additional data obtained during the site investigations documented in the ESP SAR. Earlier interpretations tended to associate the top of the Utley Limestone with either the occurrence of fossil oyster shells or carbonate-rich sediments. The ESP SSAR investigation and the more recent references cited above indicate that both fossil oyster shells and carbonate-rich sediments occur in the younger sediments within the Barnwell Group overlying the Utley Limestone. The Utley was typically broken down by the split barrel sampler and laboratory testing indicated gravel-sized fragments (GP, GC, GM), or a sand with varying silt and clay content (SP, SM, SC). Minor amounts of silt and clay soils (CL and ML) were encountered in the Utley, as compared with overlying Barnwell sediments that might contain more silt and clay. Fossils consisting of large oyster shells and other unidentified shell and phosphatic fragments were also encountered. Well cemented zones were encountered that generally consisted of quartz sand and/or shell fragments with a carbonate cement matrix. As characterized and mapped in the ESP SSAR, the Utley Limestone is consistent with criteria identified by the Georgia Geological Survey (Huddleston and Summerour, 1996).

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- (b) The differences in the top of the Blue Bluff Marl between the FSAR (AX6DD377) for Units 1 and 2 and the ESP SSAR are based primarily on the number and locations of the additional boreholes drilled for the site investigation for the proposed Units 3 and 4.

References:

(Falls and Prowell 2001) Falls, W. F., and Prowell, D. C., Stratigraphy and depositional environments from five cores from Screven and Burke counties, Georgia: in Edwards, Lucy, E.(ed.), Geology and paleontology of five cores from Screven and Burke counties, eastern Georgia): United States Geological Survey Professional Paper 1603, p. A1-A20, 2001.

(Huddlestun and Summerour 1996) Huddlestun, P. F., and Summerour, J. H., The lithostratigraphic framework of the uppermost Cretaceous and lower Tertiary of eastern Burke County, Georgia: Georgia Geologic Survey Bulletin 127, 94 p., 1996.

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Enclosure 2

Hydrology Model Input Data Files (CD)

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 Hydrology Model Input Data Files

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Document Components:

Hydrology model input data files for Hydrology SER Open Item Follow-up Questions on the Vogtle ESP Application are contained on one (1) CD-ROM. The CD-ROM is labeled "Hydrology SER Open Item Follow-up Question Input Model Data Files - Publicly Available – Vogtle Early Site Permit Application," and contains 1,066 files as follows:

FOLDER NAME	SUBFOLDER NAME	FILE NAME
Existing	Case_1	esp.\$IHEAD
		esp.\$STRG
		ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
		esp.mbt
		esp.mdb
		esp.mfi
		ESP.MFR.LOG
		esp.modflow.bf
		esp.modflow.in
		esp.mps
		esp.mrk
		esp.MSS
		esp.mtd
esp.mth		
esp.mtn		
Existing	Case_1	esp.mts

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
		ESP.TOP_OF_BBM_12_5_10FT.DBF
		ESP.TOP_OF_BBM_12_5_10FT.SHP
		ESP.TOP_OF_BBM_12_5_10FT.SHP.MAP
		ESP.TOP_OF_BBM_12_5_10FT.SHX
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
Existing	Case_1	ESP_new.HDS
		SCHEMA.INI

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
	Case_2	esp.\$IHEAD
		esp.\$STRG
		ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
		esp.mbt
		esp.mdb
Existing	Case_2	esp.mfi
		ESP.MFR.LOG
		esp.modflow.bf

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.modflow.in
		esp.mps
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
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		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
Existing	Case_2	esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.v mz

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.vrt
		ESP.WHS
		ESP_new.HDS
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
	Case 2 Alternative	esp.\$IHEAD
		esp.\$STRG
		ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.HDS
Existing	Case 2 Alternative	ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
		esp.mbt

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.mdb
		esp.mfi
		ESP.MFR.LOG
		esp.modflow.bf
		esp.modflow.in
		esp.mps
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
Existing	Case_2 Alternative	esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
		ESP_new.HDS
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
	Case 2 Discharge	ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
Existing	Case 2 Discharge	ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		ESP.LST
		esp.mbt
		esp.mdb
		esp.mfi
		ESP.MFR.LOG
		esp.MODFLOW
		esp.modflow.bf
		esp.modflow.in
		esp.mps
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
Existing	Case 2 Discharge	esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
		ESP.ZBI
		ESP.ZNI
		esp.zonebud.in
		esp.ZoneBudget
		ESP.ZOT
		ESP_new.HDS
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
Existing	Case_2_Discharge	Twells.txt
		TWellScreens.txt
	Case_3	esp.\$CND
		esp.\$STRG
		ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
		esp.mbt
		esp.mdb
		esp.mfi
		ESP.MFR.LOG
		esp.modflow.bf
		esp.modflow.in
		esp.mps
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
Existing	Case_3	ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		ESP.SURFACE_WATER_BODY_AREA.SHX
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
		ESP_new.HDS
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
Existing	Case_3	TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
Future	Case_1	esp.\$CND
		esp.\$IHEAD

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.\$STRG
		ESP.B.ENDPOINT
		ESP.B.LOG
		esp.B.modpath.in
		esp.b.modpath.prt
		esp.b.modpath.rsp
		ESP.B.PATHLINE
		esp.B.SCRATCH.000095
		ESP.B.SUMMARY.PTH
		ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.F.ENDPOINT
		ESP.F.LOG
		esp.F.modpath.in
		esp.f.modpath.prt
		esp.f.modpath.rsp
		ESP.F.PATHLINE
		esp.F.SCRATCH.000095
		ESP.F.SUMMARY.PTH
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
		esp.mbt
		esp.mdb
		esp.mfi
Future	Case_1	ESP.MFR.LOG
		esp.MODFLOW
		esp.modflow.bf
		esp.modflow.in
		esp.MODPATH
		esp.mpF
		esp.mpi
		esp.mps
		ESP.MPT
		esp.mrk
		esp.MSS
		esp.mtd

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
		ESP.TOP_OF_BBM_12_5_10FT.DBF
		ESP.TOP_OF_BBM_12_5_10FT.SHP
		ESP.TOP_OF_BBM_12_5_10FT.SHP.MAP
		ESP.TOP_OF_BBM_12_5_10FT.SHX
		esp.Var001
		esp.VIH
		esp.vma
Future	Case_1	esp.vmb
		esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		ESP.WHS
		ESP_new.HDS
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
	Case_2	esp.\$IHEAD
		esp.\$STRG
		esp.b.modpath.rsp
		ESP.BAS
		ESP.BCF
Future	Case_2	ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.F.ENDPOINT
		ESP.F.LOG
		esp.F.modpath.in
		esp.f.modpath.prt
		esp.f.modpath.rsp
		ESP.F.PATHLINE

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.F.SCRATCH.000095
		ESP.F.SUMMARY.PTH
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
		esp.mbt
		esp.mdb
		esp.mfi
		ESP.MFR.LOG
		esp.MODFLOW
		esp.modflow.bf
		esp.modflow.in
		esp.MODPATH
		esp.mpF
		esp.mpi
		esp.mps
		ESP.MPT
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
Future	Case_2	esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
		ESP_new.HDS
		lastfile.txt
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
Future	Case 2	structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
		VMODDEVW.CFG

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
	Case 2 Alternative	esp.\$CND
		esp.\$IHEAD
		esp.\$STRG
		esp.b.modpath.rsp
		ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.F.ENDPOINT
		ESP.F.LOG
		esp.F.modpath.in
		esp.f.modpath.prt
		esp.f.modpath.rsp
		ESP.F.PATHLINE
		esp.F.SCRATCH.000095
		ESP.F.SUMMARY.PTH
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
		esp.mbt
		esp.mdb
Future	Case 2 Alternative	esp.mfi
		ESP.MFR.LOG
		esp.MODFLOW
		esp.modflow.bf
		esp.modflow.in
		esp.MODPATH
		esp.mpF
		esp.mpi
		esp.mps
		ESP.MPT
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
		esp.vmf.backup
Future	Case 2 Alternative	esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
		ESP_new.HDS
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
	Case_2_Particle from Unit 4	esp.\$CND
		esp.\$IConc001
		esp.\$IHEAD
		esp.\$STRG
		esp.b.modpath.rsp
		ESP.BAS
Future	Case_2_Particle from Unit 4	ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.F.ENDPOINT
		ESP.F.LOG
		esp.F.modpath.in
		esp.f.modpath.prt
		esp.f.modpath.rsp
		ESP.F.PATHLINE
		esp.F.SCRATCH.000095
		ESP.F.SUMMARY.PTH
		ESP.HDS
		ESP.HVT

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 Hydrology Model Input Data Files

FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.ini
		esp.ldb
		ESP.LOG
		ESP.LST
		esp.mbt
		esp.mdb
		esp.mfi
		ESP.MFR.LOG
		esp.MODFLOW
		esp.modflow.bf
		esp.modflow.in
		esp.MODPATH
		esp.mpF
		esp.mpi
		esp.mps
		ESP.MPT
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
Future	Case_2_Particle from Unit 4	esp.ovmf
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
		esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
		ESP_new.HDS
		lastfile.txt
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
Future	Case_2_Particle from Unit 4	structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt
		VMODDEVW.CFG

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
	Case_3	esp.b.modpath.rsp
		ESP.BAS
		ESP.BCF
		ESP.BGT
		ESP.CLB
		esp.Conc001.mcp
		esp.Conc001.mti
		ESP.DDN
		ESP.DIS
		ESP.DRN
		esp.Engins.ini
		ESP.F.ENDPOINT
		ESP.F.LOG
		esp.F.modpath.in
		esp.f.modpath.prt
		esp.f.modpath.rsp
		ESP.F.PATHLINE
		esp.F.SCRATCH.000095
		ESP.F.SUMMARY.PTH
		ESP.HDS
		ESP.HVT
		esp.ini
		ESP.LOG
		ESP.LST
Future	Case_3	esp.mbt
		esp.mdb
		esp.mfi
		ESP.MFR.LOG
		esp.MODFLOW
		esp.modflow.bf
		esp.modflow.in
		esp.MODPATH
		esp.mpF
		esp.mpi
		esp.mps
		ESP.MPT
		esp.mrk
		esp.MSS
		esp.mtd
		esp.mth
		esp.mtn
		esp.mts
		esp.mtt
		esp.mtv
		ESP.NDC
		ESP.OC
		esp.ovmf

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		esp.ovmf.backup
		ESP.RCH
		esp.SIG
		ESP.STRUCTURE_EXISTING_AREA.DBF
		ESP.STRUCTURE_EXISTING_AREA.SHP
		ESP.STRUCTURE_EXISTING_AREA.SHP.MAP
		ESP.STRUCTURE_EXISTING_AREA.SHX
		ESP.STRUCTURE_FUTURE_AREA.DBF
		ESP.STRUCTURE_FUTURE_AREA.SHP
		ESP.STRUCTURE_FUTURE_AREA.SHP.MAP
		ESP.STRUCTURE_FUTURE_AREA.SHX
		esp.surf_wat_course_centerline.DBF
		esp.surf_wat_course_centerline.SHP
		esp.surf_wat_course_centerline.SHP.MAP
		esp.surf_wat_course_centerline.SHX
		ESP.SURFACE_WATER_BODY_AREA.DBF
		ESP.SURFACE_WATER_BODY_AREA.SHP
		ESP.SURFACE_WATER_BODY_AREA.SHP.MAP
		ESP.SURFACE_WATER_BODY_AREA.SHX
		esp.Var001
		esp.VIH
		esp.vma
		esp.vmb
Future	Case_3	esp.vmf
		esp.vmf.backup
		esp.vmf.lock
		esp.vmf.sch
		esp.vmg
		esp.vmn
		esp.VMO
		esp.vmo.grp
		esp.vmp
		esp.VMR
		esp.vmz
		esp.vrt
		ESP.WHS
		ESP_new.HDS
		SCHEMA.INI
		structure_existing_area.dbf
		structure_existing_area.prj
		structure_existing_area.sbn
		structure_existing_area.sbx
		structure_existing_area.shp
		structure_existing_area.shx
		structure_future_area.dbf
		structure_future_area.prj
		structure_future_area.sbn

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FOLDER NAME	SUBFOLDER NAME	FILE NAME
		structure_future_area.sbx
		structure_future_area.shp
		structure_future_area.shp.xml
		structure_future_area.shx
		TCObservations.txt
		TCPoints.txt
		TCWells.txt
		TFObservations.txt
		TFPoints.txt
		TFWells.txt
		TGroupPoints.txt
		TGroups.txt
		TPumpingSchedules.txt
		Twells.txt
		TWellScreens.txt