

PMLevyCOLPEm Resource

From: Douglas Bruner
Sent: Monday, November 24, 2008 3:51 PM
To: Snead, Paul
Cc: Andrew Kugler; Jessie Muir; Prendergast-Kennedy, Ellen L; Smith, Michael Alan; LevyCOL Resource
Subject: Information Needs for Levy Site Audit
Attachments: Master Info Needs 11_24_08 - Final.doc

Paul,

Attached is the Master List of Information Needs for the site audit. I expect this to be the final (water mark removed). Please call if you have questions.

Thanks,

Doug

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Subject: Information Needs for Levy Site Audit
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Priority: Standard
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**Information Needs — November 24, 2008
Levy Units 1 & 2 Site Audit**

Number = number of original information need.

Letter = information need added to the list of original information needs during the site audit.

Red text = Further definition of or addition to information needs as a result of site audit conversations.

Info needs #	Information Needs
G-	General Information Needs
G-1	Provide access to originals of all ER figures in .jpeg, .png or .tif format at a resolution of at least 300 dpi, and sized correctly.
G-2	Provide access to separate layers for GIS files.
G-3	Make available the ER references.
G-4	Provide the background information that supports all statements made and conclusions reached for each subject area for each alternative site (documentation is needed to show due diligence in gathering and using the best readily available information for a reconnaissance level review).
G-5	Provide knowledgeable expert(s) in appropriate disciplines to discuss contents of Tables 10.1-1 and 10.1-2 and assure consistency between the contents of the summary tables and the results of information needs discussions. It is anticipated that this will be addressed in specific breakout sessions for the individual disciplines.
G-6	Provide or make available copies of permits for the CREC that may be relevant to or affected by the proposed Levy County action (e.g., USACE or NPDES permits).
G-7	Provide large wall map(s) at the site audit that show key features related to the proposed project, including: <ul style="list-style-type: none"> • Proposed temporary and permanent facilities • Proposed construction laydown areas • Proposed intake pipeline • Proposed intake structure • Proposed discharge pipeline • Proposed transmission corridor(s) • Property boundaries • Points of interest (e.g., nearby residences, gas pipelines, nearby industries, including quarries/mines) • Proposed rail line spur • Proposed haul roads • Proposed barge slip and associated road

Audit Information Needs – Summarized Version

Info needs #	Information Needs
LU-	Land Use
LU-1	Provide access to information regarding rail line construction length and associated rail-bed construction activities.
LU-2	Provide access to information regarding whether borrow pits will be constructed or expanded. Also, what volumes of borrow will be transported and used in construction?
TL-	Transmission Lines
TL-1	Provide GIS-based transmission corridor analysis for our review.
TL-2	Provide access to details for alternative transmission system design (e.g., voltage levels, transmission frequency, tower designs, conductor designs), construction (e.g., underground placement in certain areas, erosion control, revegetation, access roads), and maintenance practices.
TL-3	Provide access to details regarding the transmission corridor selection process and cost data for the proposed and alternative transmission corridors.
Met-	Meteorology/Noise/Air Quality
Met-1	Provide a knowledgeable expert to discuss meteorology and air quality described in the ER Sections 2.7, 4.4.1.2, and 5.8.1.2.
Met-2	Provide a knowledgeable expert to discuss meteorology monitoring as described in the ER Section 2.7.5. This should include a tour of the meteorological equipment, and, if possible, a meeting with staff that operate and maintain the meteorological equipment (Section 2.7 and Section 6.4). This should also include an opportunity to review the instrument maintenance records.
Met-3	Provide a knowledgeable expert to discuss the cooling system to aid our evaluation of cloud formation from the cooling towers (Section 5.3.3).
Met-4	Provide access to electronic copies of input and output files for PAVAN, XOQDOQ, models used for cooling tower plumes, and calculation packages (Section 2.7).
Info needs #	Hydrology
H-1	Surface Water (SW) -1: Provide a knowledgeable expert to discuss state and federal permitting and consultation requirements for the proposed project and the statuses of the respective applications.
H-2	SW-2: Provide a knowledgeable expert to discuss different datums used to report elevations in the ER Sections 2.3.1 and 3.6.3.
H-3	SW-3: Provide a knowledgeable expert to discuss flooding near the LNP site described in the ER Sections 2.3.1 and 3.6.3.
H-4	SW-4: Provide a knowledgeable expert to discuss the operation of the Inglis Lock with regard to discharges to Lower Withlacoochee River as described in ER Sections 2.3.1 and 5.2.1.

Audit Information Needs – Summarized Version

Info needs #	Information Needs
H-5	SW-5: Provide a knowledgeable expert to discuss the availability and characteristics of the surface water sampling program in the CREC discharge canal as described in the ER Section 2.3.3.
H-6	SW-6: Provide a knowledgeable expert to discuss the water treatment system used for the raw water system with reference to the ER Sections 3.3.2, 3.6.1, and 3.6.3.
H-7	SW-7: Provide a knowledgeable expert to discuss details of the CFBC makeup intake structure and the description of components used for addition of chemicals with respect to the ER Section 3.4.2.
H-8	SW-8: Provide a knowledgeable expert to discuss details of the outfall structure with respect to the ER Section 3.4.2.
H-9	SW-9: Provide a knowledgeable expert to discuss heat dissipation system performance analyses based on site-specific data with respect to the ER Section 3.4.2.
H-10	SW-10: Provide a knowledgeable expert to discuss the stormwater runoff during construction and operation.
H-11	SW-11: Provide a knowledgeable expert to discuss the site grading plan and its effects on local hydrology including runoff and infiltration during construction and operation.
H-12	SW-12: Provide a knowledgeable expert to discuss Florida’s Regional Off-Site Mitigation Area (ROMA) Plan.
H-13	SW-13: Provide a knowledgeable expert to discuss the fate of construction-related effluents with respect to the ER Section 4.2.2
H-14	SW-14: Provide a knowledgeable expert to discuss impacts on freshwater streams including the Lower Withlacoochee River during operation with respect to the ER Section 5.2.1.
H-15	SW-15: Provide a knowledgeable expert to discuss returns of any withdrawn water under different modes of operation with respect to the ER Section 5.2.1.
H-16	SW-16: Provide a knowledgeable expert to discuss HEC-RAS modeling of the CFBC described in the ER Sections 5.2.1 and 5.2.2.
H-17	SW-17: Provide a knowledgeable expert to discuss the study regarding freshwater contribution to CFBC described in the ER Section 5.2.2.
H-18	SW-18: Provide a knowledgeable expert to discuss the CWIS intake design and operational characteristics described in the ER Section 5.3.1.1.
H-19	SW-19: Provide a knowledgeable expert to discuss the combined LNP and CREC discharges to the CREC discharge canal as described in the ER Section 5.3.2.1.
H-20	SW-20: Provide a knowledgeable expert to discuss thermal plume modeling at the discharge point of the CREC discharge canal.
H-21	SW-21: Provide a knowledgeable expert to discuss alternatives to the heat dissipation system described in the ER Section 9.4.1.
H-22	SW-22: Provide a knowledgeable expert to discuss alternatives to the proposed intake system, discharge system, and water supply described in the ER Section 9.4.2.

Audit Information Needs – Summarized Version

Info needs #	Information Needs
H-23	SW-23: Provide a knowledgeable expert to discuss the process of alternative site selection with respect to hydrology.
H-24	SW-24: Provide a knowledgeable expert to discuss preconstruction activities as defined by 10 CFR 51.4 and required by 10 CFR 51.45(c).
H-25	Groundwater (GW)-1: Provide a knowledgeable expert to discuss hydrogeologic characterization of results from the site investigation, including development of local-scale cross-sections.
H-26	GW-2: Provide a knowledgeable expert to describe any consultations with EPA regarding the likelihood of any aquifers in the region being designated as sole source aquifer (40 CFR Part 149).
H-27	GW-3: Provide a knowledgeable expert to discuss hydraulic test analysis approach, the results for both the surficial and Upper Floridan aquifers, and the hydraulic properties used in the seepage velocity calculations and their impact on travel time calculations.
H-28	GW-4: Provide a knowledgeable expert to discuss slug testing results for the Upper Floridan aquifer and their apparent discrepancy with the estimated transmissivity range presented in ER Section 2.3.1.5.2.
H-29	GW-5: Provide a knowledgeable expert to discuss LNP groundwater usage from the Upper Floridan aquifer, both during construction and operations, in relation to a basin or subbasin scale water balance.
H-30	GW-6: Provide a knowledgeable expert to describe any consultations with the state of Florida or the SWFWMD regarding LNP groundwater usage in relation to the overall current and future permitted usage for Levy County.
H-31	GW-7: Provide a knowledgeable expert to discuss 1) temporal variability observed in field parameter and groundwater analytical data, most notably the ORP and COD data, 2) the reason for the generally low DO and ORP values and whether reducing conditions within the aquifer will be problematic from a water supply standpoint, 3) whether the correct units for specific conductance are presented in the text and Table 2.3-50, and 4) potential impacts to water quality associated with construction or plant operations.
H-32	GW-8: Provide a knowledgeable expert to discuss the use of the DWRM2 groundwater model for simulating the impacts of LNP's withdrawals from the Floridan aquifer on 1) potentiometric heads within the aquifer, 2) spring discharges, 3) other well users, and 4) upwelling of brackish water into previously fresher portions of the Floridan aquifer.
H-33	GW-9: Provide a knowledgeable expert to discuss groundwater monitoring systems and Provide copies of any correspondence with regulatory agencies regarding monitoring requirements.
TE-	Terrestrial Ecology
TE-1	If available, provide information on correspondence with federal and state agencies regarding the impact to terrestrial species and habitats onsite and along the proposed transmission corridor.
TE-2	Provide a knowledgeable expert to discuss the methods used to quantify habitat distribution onsite and methods and locations of wildlife and plant surveys.
TE-3	Provide a knowledgeable expert to discuss terrestrial resources, including waterfowl onsite and along the transmission corridor.

Audit Information Needs – Summarized Version

Info needs #	Information Needs
TE-4	Provide a knowledgeable expert to discuss the location of temporary and permanent facilities, including the construction laydown areas, the intake pipeline, transmission corridor and discharge pipeline.
TE-5	Provide a knowledgeable expert to discuss wetlands impacts related to temporarily and permanent construction activities onsite, including dewatering during excavation as well as impacts related to construction of the transmission corridor.
TE-6	Provide a knowledgeable expert to discuss bird collisions with elevated construction equipment, cooling towers and transmission towers.
TE-7	Provide a knowledgeable expert to discuss salt deposition, including information on habitats that may be impacted by deposition, as well as seasonal fluctuations in deposition.
TE-8	Provide a knowledgeable expert to discuss restoration of temporarily disturbed areas onsite and along the transmission corridor.
TE-9	Provide a knowledgeable expert to discuss concentration estimates for any specific contaminants in the cooling tower basin.
TE-10	Provide a knowledgeable expert to discuss impacts of operational noise on wildlife.
TE-11	Provide a knowledgeable expert to discuss transmission ROW maintenance practices, including specific BMPs and procedures that will be used to minimize impacts to wetlands or other sensitive habitats.
TE-12	Provide a knowledgeable expert to discuss information about onsite or within transmission line ROW wildlife management or enhancement practices.
TE-13	Provide a knowledgeable expert to discuss cumulative impacts to terrestrial resources.
TE-14	Provide a knowledgeable expert to discuss the impacts of project construction and operation on terrestrial ecology/wildlife.
TE-15	Provide a knowledgeable expert to discuss the value/utility of retained forest buffers on the project site as future wildlife habitat.
TE-16	Provide a knowledgeable expert to discuss the ongoing studies of important species and their habitat onsite and along the transmission corridor.
TE-17	Provide a knowledgeable expert to discuss potential project effects on important wildlife and plant species, and important habitats.
TE-18	Provide a knowledgeable expert to discuss the post-certification process for addressing listed species along the proposed transmission corridor.
TE-19	Provide a knowledgeable expert to discuss the potential effects of operational groundwater pumping on wetlands.
TE-20	Provide a knowledgeable expert to discuss the wetland permitting process being pursued, including avoidance, minimization and mitigation for onsite areas and the transmission corridor.
AQ-	Aquatic Ecology

Audit Information Needs – Summarized Version

Info needs #	Information Needs
AQ-1	If available, Provide any correspondence with federal or state agencies (e.g., USFWS, NMFS, FDEP, FFWCC, USACOE) regarding impacts to aquatic species and proposed discussions for appropriate monitoring studies in the Cross Florida Barge Canal (CFBC), the Gulf of Mexico at the mouth of the CFBC, and the Gulf of Mexico at the Crystal River Energy Complex discharge.
AQ-2	Provide a knowledgeable expert to discuss cumulative impacts to the aquatic environment in the region (quarries, etc).
AQ-3	Provide a knowledgeable expert to discuss BMPs associated with construction and operation/maintenance of the plant and transmission corridors, especially related to aquatic habitats.
AQ-4	Provide a knowledgeable expert to discuss construction of the proposed cooling water intake structure on the CFBC, including intake design, information on proposed timing and length of the construction period, and dredging spoils disposition.
AQ-5	Provide a knowledgeable expert to discuss operation of the proposed cooling water intake structure regarding the need for future dredging in the vicinity of the intake.
AQ-6	Provide a knowledgeable expert to discuss construction of the proposed discharge structure, including design, location and placement of discharge piping, as well as any information on proposed timing and length of the construction period.
AQ-7	Provide access to any sampling reports or data from the proposed sampling events (late spring/early summer, 2008 and July/August 2008) in the CFBC and Withlacoochee River for water quality, fish and benthic macroinvertebrates.
AQ-8	Provide access to any sampling reports or data from the proposed sampling events (spring, summer, fall and winter, 2008) from the CREC discharge canal mouth and nearby Gulf of Mexico seagrass habitat for water quality, fish and benthic macroinvertebrates.
AQ-9	Provide access to any supporting documentation or references that detail improvement of aquatic communities in the nearshore environment of the Gulf of Mexico in the vicinity of the CREC discharge since 1985.
SE-	Socioeconomics/EJ
SE-1	Provide a knowledgeable expert to discuss the method underlying the BEBR population projections – do these projections consider expected development of any particular kind? Be prepared to walk through an example of how a county-wide projection is applied to a sector on ER Figures 2.5-1 and 2.5-2.
SE-2	Provide a knowledgeable expert to walk through the calculation of transient population, including how recreational area use was estimated and factored in and how the statewide migrant worker estimates were distributed.
SE-3	Provide a knowledgeable expert to describe how the location of major employers was used in relation to the estimates of transient population in the 16-km versus 80-km sectors?
SE-4	A number of demographic figures were obtained from the 2000 Decennial census data sets included in Reference 2.5-001. Provide a knowledgeable expert to describe which tables within the cited reference were used in developing the data for different tables and conclusions in the ER (e.g. for Tables 2.5-1, 2.5-3, 2.5-6, 2.5-7).

Audit Information Needs – Summarized Version

Info needs #	Information Needs
SE-5	This request embedded in SE-4 applies to a number of other references. Please revisit the reference list for the socioeconomic sections of the ER and, for those that cite web pages, provide the specific data tables within the cited page that were used.
SE-6	Provide a knowledgeable expert to describe how the figures for % minority population and % population below poverty were obtained (ER 2.5.1.3.3 and 2.5.1.3.4 and Tables 2.5-6 and 2.5-7).
SE-7	Provide a knowledgeable expert to discuss the figures in Table 2.5-9 and explain the relationship between numbers for the region and the three counties.
SE-8	Provide a knowledgeable expert to describe how income figures in Tables 2.5-11 were derived from Reference 2.5-016.
SE-9	Provide a knowledgeable expert to give a fuller description of the specific communities around the site, particularly those closest. We want to understand the nature of each community to be able to evaluate social impacts. Useful information would include an integrated discussion of variables such as: size, population, social services and infrastructure, major sources of income and employment, and governance.
SE-10	Provide a knowledgeable expert to describe how the information in section 2.5.2.8.2 was obtained.
SE-11	In addition to the information provided on Figure 2.5-14, please provide the locations of the block groups with specific minority populations of more than 20% above the state average (i.e. African-American and Hispanic, as discussed in Section 2.5.4.2.1).
SE-12	Provide a knowledgeable expert to walk through the allocation of in-migrating construction workers to different cities and counties in the ER Section 4.4.
SE-13	If available, provide access to information at town and city level, particularly for the smaller towns, regarding housing availability, school capacity, public facilities and services, water and wastewater.
SE-14	Provide a knowledgeable expert to: (1) walk through the discussion of employment and earnings impacts, (2) describe the basis for assuming that induced jobs would be taken by existing residents with no in-migration, (3) describe the basis for excluding earnings for the construction jobs that will be taken by locals, while including local expenditures and applying the RIMS multiplier to the latter.
SE-15	Provide a knowledgeable expert to describe what historical information can be obtained about socioeconomic impacts of construction of the Crystal River Energy Complex that can illuminate the discussion of expected impacts of LNP.
CR-	Cultural Resources
CR-1	Provide a tour of cultural resources identified on PEF land associated with the Levy site, the area surveyed to date related to the preconstruction activities and proposed construction of Units 1 and 2, and any cultural resources identified during this effort. (ER Section 4.1.3 & 5.1.3)
CR-2	Provide a knowledgeable expert to describe how the area of potential effect (APE) was defined for the COL effort. (ER Section 4.1.3 & 5.1.3)
CR-3	Provide a knowledgeable expert to describe the basis for determining any previous ground disturbance at the Levy site.

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Info needs #	Information Needs
CR-4	Provide a knowledgeable expert to describe "preconstruction" activities and how any identified or not yet identified cultural resources will be impacted by these activities.
CR-5	Provide a knowledgeable expert that can characterize the cultural resources at the site (areas listed below) and the impacts from construction and operation of the new units, to include discussions of: <ul style="list-style-type: none"> • New transmission line corridor(s) • Proposed rail line spur • Haul road(s) • Barge slip and associated access road • Makeup pipeline • Blowdown pipeline • Area to be used for intake structure and other pipeline associated structures • The "Cross Florida Canal"
CR-6	Provide a knowledgeable expert to describe the cultural resources scope of work to date, what remains to be completed, and a schedule for completion.
CR-7	Provide copies of all reports completed by New South for the COL effort for Unit 1 and 2, and their associated SHPO concurrence.
CR-8	Provide a knowledgeable expert to describe how any resources, previously identified or identified in the course of COL related work, were determined significant or not significant.
CR-9	Provide a knowledgeable expert to describe how it was determined that no traditional cultural properties will be impacted.
CR-10	Provide access to a procedure or plan for evaluation and mitigation or avoidance of cultural and historic resources identified during any previous or current investigations (if they are likely to be impacted by preconstruction, construction, or operation of the facility).
CR-11	Provide a knowledgeable expert to describe the process for evaluating noise and viewshed impacts to cultural resources.
CR-12	Provide access to procedure(s) for post-licensing cultural resource protection and management, from site specific to corporate level.
CR-13	Provide access to copies of ALL consultation correspondence with the SHPO, Tribes, and any other parties regarding the preconstruction and construction of the proposed Units 1 and 2 in reference to cultural and historic resources.
CR-14	Provide access to copies of all survey reports referenced in the ER Sections 4.1.3 and 5.1.3.
CR-15	Provide a knowledgeable expert to describe the process used to identify interested Tribes and parties regarding cultural resources.
Alt-	Alternatives
Alt-1	Provide access to the proprietary siting study for our review

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Info needs #	Information Needs
Alt-2	Provide access to complete information on intake systems.
Alt-3	Provide access to complete information on discharge systems.
Alt-4	Provide access to descriptions and details of alternative water treatment systems considered.
HP-	Rad/Fuel Cycle/Waste/Decommissioning
HP-1	Provide a knowledgeable expert to describe the liquid and gaseous source terms, release points, atmospheric dispersion models, and aquatic dispersion models.
HP-2	Provide a knowledgeable expert to describe the GASPAR II and LADTAP analyses used to assess the impacts of gaseous and liquid effluents.
HP-3	Provide access to electronic copies of GASPAR II and LADTAP input and output files and calculation packages.
HP-4	Provide a knowledgeable expert to describe the waste systems including exposure rates due to onsite storage of solid waste and independent spent fuel storage.
HP-5	Provide a knowledgeable expert responsible for identifying exposure pathways and calculating doses to the public and biota from normal plant operations. Also, provide information on the presence or lack thereof of any unusual plants, animals, agricultural practices, or unusual food processing operations that can contribute 10% or more to offsite doses.
HP-6	Provide a knowledgeable expert to discuss the models, assumptions, and input data used to arrive at the estimates for doses to construction workers.
HP-7	Provide a knowledgeable expert to describe the uranium fuel cycle impacts and the comparison to the Table S3 values from 10 CFR 51.51(a) contained in the ER.
HP-8	Provide a knowledgeable expert responsible for the radiological environmental monitoring program to discuss the design and technical basis for the program.
HP-9	Provide a knowledgeable expert to discuss the difference in the collective dose for construction workers calculated by the reviewer ($0.028 \text{ mSv} \times 2700 \text{ workers} = 0.0756 \text{ person-Sv}$) and the 0.088 person-Sv value on page 4-83 (Section 4.5.5) of the ER. Also, to discuss the difference in the collective dose to construction workers. The reviewer calculated a 9.72 person-Sv ($360 \text{ mrem/yr} \times 2700 \text{ workers}$) collective dose to construction workers, however a value of 11.34 person-Sv from background and manmade radiation sources is shown on page 4-83 (Section 4.5.5) in the ER.
HP-10	Provide a knowledgeable expert (i.e., the principal author(s) of the radiological sections of the ER) to discuss the source term, liquid and gaseous release points, transport and exposures used to calculate doses to construction workers, and MEI and population doses.
HP-11	Provide a knowledgeable expert to discuss the assumptions (chi/Q, stability classification, wind directions and speeds based on release and receptor locations) used to analyze transport of releases from specific elevations of LNP1 during construction of LNP2. This expert should also be able to discuss the uncertainty associated with less than a year of local data used to establish a correlation between site conditions and the Gainesville, Tampa and Orlando observation stations.

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HP-12	Provide a knowledgeable expert to discuss the onsite movement of nuclear fuel and radiological waste during construction of LNP2. (This could be staff responsible for the uranium fuel cycle environmental data addressed in ER section 5.7 and 10CFR51.51.)
HP-13	Provide a knowledgeable expert to discuss methods for identifying exposure pathways and calculating doses to the public and the biota from normal plant operations. In particular, would like to discuss information confirming existing and projected locations of nearby (within 10 miles) homes, off-site populations, cows/goats, gardens, sustenance forage and hunting, potable and irrigation wells, water intakes, fisheries, recreation etc.
HP-14	Provide a knowledgeable expert (preferably a cognizant Florida DEP radiological scientist, if possible) to discuss an August 12, 2008 letter from Jamie Hunter, Lead Environmental Specialist, Progress Energy, to Mr. Mike Halpin, PE, Siting Administrator, Florida DEP, responding to Determination of Incompleteness – Main Site and Associated Facilities for the Levy Nuclear Plant.
HP-15	Provide a knowledgeable expert to discuss the radiological environmental monitoring program.
Acc-	Accidents
Acc-1	Design Basis Accident (DBA) -1: Make available the PAVAN input and output files to support the DBA analysis in the ER. Include documentation on any supporting calculations or assumptions, input and output files to the PAVAN code, and the meteorological file used in the analysis. In addition provide a knowledgeable expert to discuss the DBA analysis. Items to be reviewed include: <ul style="list-style-type: none"> • Source characterization (location, release heights, building dimensions) • Distances to the EAB and LPZ Meteorological data
Acc-2	DBA-2: Provide a knowledgeable expert to discuss the assumptions for the LOCA and revised LOCA dose estimates consistent with the NRC position that the assumption that a DF of 5 for particles is not acceptable (NRC 8/14/2008 letter to Westinghouse).
Acc-3	DBA-3: Provide access to isotopic release rates as a function of time for each of the DBAs. Include the release rate for the two-hour period giving the highest dose at the EAB.
Acc-4	DBA-4: Be prepared to discuss the differences in DBAs between AP1000 DCD Revision 16 and DCD Revision 17.
Acc-5	DBA-5: Provide access to electronic copies of PAVAN input and output files.

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Acc-6	Severe Accident (SA) -1: Make available the MACCS2 input and output files used to support the severe accident analysis. Include documentation of supporting calculations or assumptions. Provide a knowledgeable expert to discuss the severe accident analysis. Items to be reviewed include: <ul style="list-style-type: none"> • Source characterization (locations, release height, building dimension, core inventory, release fractions, release classes) • Meteorological data and assumptions • Population estimates • Land Use characterization • Evacuation assumptions • Economic assumptions • Consistency with other parts of ER
Acc-7	SA-2: Provide access to electronic copies of MACCS2 input and output files.
Acc-8	SA-3: Provide access to information of surface water users between 25 and 50 miles.
Acc-9	SA-4: Provide access to an estimate of the conditional probability of basemat melt-through should core damage occur.
Acc-10	SA-5: Provide access to estimates of the severe accident risks for the Crystal River Plants, if available, for the evaluation of cumulative impacts.
Acc-11	SA-6: Be prepared to discuss how changes in the AP1000 design set forth in revisions 16 and 17 of the AP1000 design control document affect the AP1000 probabilistic risk assessment and the implications of the changes on the severe accident risk assessment for Levy County. The changes of interest include but are not limited to severe accident source terms and core damage frequencies that are used in assessing severe accident risks.
Acc-12	SA-7: Provide access to water ingestion pathway doses by release class.
Acc-13	Severe Accident Mitigation Alternatives (SAMA) -1: Provide a knowledgeable expert to discuss SAMAs.
Acc-14	SAMA-2: Be prepared to discuss the effects of DCD Revisions 16 and 17 on the AP1000 PRA and SAMDA analysis
Acc-15	SAMA-3: Provide information on when procedural SAMAs will be evaluated, and what will be considered.
T-	Transportation
T-1	Provide access to electronic copies of RADTRAN input and output files.
T-2	Provide access to calculation packages for the transportation analyses presented in the ER, Sections 3.8 and 7.4, preferably making it accessible to PNNL staff in Columbus, Ohio, prior to the site audit.
T-3	Provide access to electronic copies of TRAGIS output files for the transportation analyses presented in the ER, Sections 3.8 and 7.4. This includes routes associated with the Levy site and the alternative sites.
T-4	Provide access to a copy of the reference Progress Energy Florida, Inc., “New Nuclear Baseload Generation Addition, Evaluation of Florida Sites,” (Proprietary) October 2007.
T-5	Provide access to maps denoting the locations of Dixie, Highlands, and Putnam sites.

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T-6	Provide access to a copy of the reference Progress Energy and Lincks & Associates, Inc., “Transportation Analysis: Levy County Nuclear Power Plant,” Project Number: L07040, February 2007.
NRHH	Non-Rad Human Health and Waste
NRHH-1	If available, provide access to any correspondence with the Florida Division of Health regarding public health concerns from thermophilic microorganisms (etiologial agents) from cooling waters.
NRHH-2	Provide a knowledgeable expert to discuss potential thermophilic microorganism impacts from cooling water discharge to the Gulf of Mexico.
NRHH-3	Provide a knowledgeable expert to discuss the proximity and types of recreational activities occurring near the cooling water discharge to the Gulf of Mexico.
NRHH-4	Provide a knowledgeable expert to discuss the most recent Centers for Disease Control information regarding incidence of infection from etiologial agents or diseases of concern in the ROI.
NRHH-5	Provide a knowledgeable expert to discuss the following associated with the transmission system: ozone, electrostatic effects (electric shock), corona discharges, and conformance with NESC concerning steady-state currents.
NRHH-6	Provide a knowledgeable expert to discuss occupational health in association with operation activities and adherence to NRC, OSHA and State safety standards, practices and procedures.
NRHH-7	Provide a knowledgeable expert to discuss cumulative health impacts of construction and operation.
NRHH-8	Provide a knowledgeable expert to discuss the sanitary systems and related effluents used with reference to the ER Section 3.6.2.
NRHH-9	Provide a knowledgeable expert to discuss public and occupational health, and noise associated with pre-construction and construction activities.
NRHH-10	Provide a knowledgeable expert to discuss possible pre-existing soil and sediment contamination on the Levy site and mobilization thereof during the preconstruction and construction phases.
NRHH-11	Provide a knowledgeable expert to discuss possible pre-existing sediment contamination in the CFBC at the CWIS and sediment mobilization during construction and facility operation.
NRHH-12	Provide a knowledgeable expert to discuss human exposures to volatile and particulate chemical releases from the cooling system during facility operation.
HP-13	Provide a knowledgeable expert to describe the quantities and disposition of vegetative debris from land clearing operations, including clearing of the proposed transmission line and pipeline rights-of-way.
HP-14	Provide a knowledgeable expert to describe the air quality impacts of burning cleared vegetation.
HP-15	Provide information on the location and capacity of permitted industrial waste landfills that will be used for disposition of construction waste.
HP-16	Provide a knowledgeable expert to identify the types and quantities of hazardous waste to be generated during construction and operation.

Audit Information Needs – Summarized Version

HP-17	Provide a knowledgeable expert to describe the types and quantities of solid waste expected to require disposition during construction and operation.
HP-18	Provide information to clarify the number of proposed diesel-driven fire pumps.
CB	Cost Benefit
CB-1	<p>Provide a knowledgeable expert (preferably the author of Section 10.4 of the ER), who can provide additional explanation and discussion of Federal incentives mentioned in Section 10.4.2.3 of the ER. Topics include the impacts of the following:</p> <ul style="list-style-type: none"> • Production tax credit for the first advanced reactors brought on line in the United States • Federal risk insurance benefits expected as part of the Nuclear Power 2010 Partnership • The expected impact of these incentives in terms of their role in making the project economically viable, and the impact on the proposed action in case PEC does not qualify for some or all of the incentives. • How the provisions of the Energy Policy Act of 2005 specifically mitigate projected construction and operations costs over the life of the proposed facilities.
CB-2	<p>Provide a knowledgeable expert (preferably the author of Section 10.4 of the ER), who can provide additional discussion relative to ER Section 10.4.3. Discussion topics will include:</p> <ul style="list-style-type: none"> • The important conclusions to be drawn from the summary in Table 10.4.1. • Balancing of all internal and external benefits and costs • Determination of the net economic benefit (or cost) to society of the proposed action, based on this assessment. • Discussion of costs and benefits that cannot be precisely determined at this time in relative terms compared to the expected internal construction and operation costs – to facilitate amplified discussion of the benefit/cost balance.