Audit Items
PSEG ESP Environmental Site Audit
April 2011

ID No.	Audit Items
General (GEN)	
GEN-01	Make available a knowledgeable expert discuss the purpose and need for the proposed action.
GEN-02	Make available two printed copies of the latest version of the Environmental Report (ER) for reference during the Site Audit discussions.
GEN-03	During the discussions for each subject area in the ER, make available a knowledgeable expert to discuss the necessary background information and rationale to support and explain all statements made and all conclusions reached for the PSEG site and all alternative sites.
GEN-04	Make available a knowledgeable expert to describe the “preconstruction” and “site preparation” activities that would be separate and distinct from safety-related “construction” activities.
GEN-05	Make available a knowledgeable expert to discuss the types, sequence, and durations of activities that would occur during preconstruction and construction. In particular, to discuss the activities associated with site preparation, power block construction, transmission line construction, causeway construction, and all other preconstruction and construction activities.
GEN-06	Make available originals of all ER figures. Geographic Information Systems (GIS) files are not included in the License Application, but some of the maps in the ER are clearly based on GIS-based spatial data processing. Make available all GIS files used to create the maps as well as the separate layers for the GIS files, as available.
GEN-07	Make available for reference copies of the calculation packages (i.e., inputs and outputs) for the following computer runs: LADTAP, GASPAR, SACTI, CORMIX, MCNP, MACCS2, TRAGIS, and RADTRAN.
GEN-08	Make available representative ground-level photographs of the site on which major proposed station features are superimposed (ESRP 3.1). These should be taken from among the following typical vantage points when a visual impact from that location can be expected: 1. residential 2. commercial 3. industrial 4. educational 5. transportation corridors (air, auto, rail, pedestrian) 6. cultural (recreational, historic, archaeological).
GEN-09	Make available topographic maps of the proposed site and vicinity (ESRP 2.2) showing existing and proposed facility and station layout, exclusion areas, site boundaries, liquid and gaseous release points (and their elevations), meteorological towers, the construction zone, land to be cleared, waste disposal areas, and other buildings and structures (both temporary and permanent) associated with the project (ESRP 3.1). Also, make available an expert to discuss these maps as well as ER Figure 3.1-2 (SSAR

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	Figure 1.2-3), Site Utilization Plan that shows existing facility and station layout and most of the other listed items for the Salem Generating Station (SGS) and the Hope Creek Generating Station (HCGS).
GEN-10	Make available a knowledgeable expert to discuss the aesthetic principles, concepts, and assumptions used in the plant parameter envelope (PPE) to bound aesthetic impacts, including plans to seclude and screen the facilities and to integrate the buildings and landscaping architecturally into the environs (ESRP 3.1).
GEN-11	Make available a knowledgeable expert to discuss the specifics of the proposed (85 acres) land exchange and land to be leased (45 acres) with the U.S. Army Corps of Engineers (Corps) as discussed in ER Sections 2.1.1, 2.2.1.1, 2.8, 2.2.3.5 and SSAR Section 1.2.2. In addition, make available a knowledgeable expert to discuss the alternate locations for any land to be acquired or leased by the Corps for an alternative Confined Disposal Facility (CDF) site, as well as the potential environmental impacts that would accompany the preparation and/or use of land at an alternative CDF site.
GEN-12	Make available a knowledgeable expert to discuss the PPE used in the ER, as well as the rationale for selecting the PPE assumptions as documented in the ER and SSAR. The discussion should clarify whether the PPE values are defined on the basis of a single new reactor unit at the PSEG site or two new reactor units.
GEN-13	Make available a knowledgeable expert to discuss how the PPE bounds the environmental impacts.
GEN-14	SSAR Table 1.3-3 provides the values for a Single Unit Principle Radionuclides in Solid Radwaste, for a single unit (defined as 4614 MWT). Make available a knowledgeable expert to discuss the values for a dual unit (defined as 6830 MWT).
GEN-15	SSAR Table 1.3-7 provides the values for a Single Unit Composite Average Annual Normal Gaseous Release. Make available a knowledgeable expert to discuss whether these values bound a dual unit.
GEN-16	SSAR Table 1.3-8 provides the values for a Single Unit Composite Average Annual Normal Liquid Release. Make available a knowledgeable expert to discuss whether these values bound a dual unit.
GEN-17	ER Section 3.2.1 states: "The rated thermal power (RTP) of 4590 MWt is the bounding RTP for one unit and 6800 MWt for two units (SSAR Table 1.3-1, Item 19.11). The approximate gross and net electrical output for one unit is 1710 MWe and 1600 MWe, respectively, for the bounding design. The bounding design gross and net electrical output for two units is approximately 2400 MWe and approximately 2200 MWe, respectively." SSAR page 1.2-2, second paragraph states: "The new plant on the PSEG Site may be any of the reactor designs identified or a different design that falls within the range of the information developed to characterize the new plant. The bounding new plant consists of a reactor design with a maximum thermal power that does not exceed 4614 MWt for a single unit or 6830 MWt for a dual unit. The new plant on the PSEG Site is capable of producing up to approximately 2200 MWe net of electrical power." In SSAR Table 1.3-17, PPE item 19.11, the values are 4590 MWt and 6800 MWt rated thermal power. Make available a knowledgeable expert to discuss and explain these different bounding values.

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GEN-18	Make available a knowledgeable expert to discuss all nearby existing/proposed projects or activities that could potentially contribute to cumulative impacts if a new nuclear power plant is constructed at the PSEG site or at the alternative sites. The discussion should include the type of project or activity, its distance from the PSEG site, its status (if it is a proposed project or activity), the time frame during which it could contribute to cumulative impacts, and the cited reference from which this information was obtained.
GEN-19	Make available a knowledgeable expert to explain the existing SGS and HCGS wastewater treatment and disposal systems, and the waste that might be generated by any new reactor(s).
GEN-20	Make available a knowledgeable expert to discuss the design assumptions and/or details for the necessary cooling water intake structures on the Delaware River, as well as the structure for discharging cooling tower blowdown back into the Delaware River.
GEN -21	Please make available a knowledgeable expert to discuss the status of needed US Coast Guard (USCG) permits (Private Aids to Navigation Permit and Section 9 Permit). In addition, provide copies of all correspondence with USCG on ESP.
Land Use (LU)	
LU-01	Make available GIS data layers for the site boundary and the estimated boundary for the footprint of disturbance. Include data for the plant site, access road and corridor, pipelines, and other associated features.
LU-02	Make available a knowledgeable expert to discuss existing and planned land uses at the proposed site, in the vicinity (i.e., within a 6-mi. radius), and in the region (i.e., within a 50-mile radius). Also, to discuss the on-site and off-site land use impacts of building and operating a new nuclear plant and associated facilities on the proposed site.
LU-03	Make available a knowledgeable expert to discuss existing and planned land uses along the proposed access road and causeway, transmission line, and pipeline corridors. Also, to discuss the land use impacts of building and operating the proposed access road, causeway, pipeline, and transmission line corridors.
LU-04	Make available a knowledgeable expert to discuss existing and planned land uses at each of the four alternative sites and in their vicinity and region (see LU-02 for definitions). Also, to discuss the on-site and off-site land use impacts of building and operating a new nuclear plant and all associated facilities (i.e., access roads, barge landings, transmission lines, pipelines, etc.) at each of the alternative sites.
LU-05	Make available a knowledgeable expert to discuss special land-use classifications that would be impacted by building and operating a new nuclear plant at the proposed site or at alternative sites (e.g., Native American or military reservations, wild and scenic rivers, state and national parks, national forests, designated coastal-zone areas, flood-plains, wildlife refuges, and wilderness areas) (ESRP 2.2.2).
LU-06	Make available maps showing major public and trust land areas in the region around the proposed site and each of the alternative sites (ESRP 2.2.3).
LU-07	Make available a knowledgeable expert to discuss the acquisition and/or use of the proposed site and transmission corridors (and any other off-site property) for the proposed project (see also GEN-16) (ESRP 2.8).
LU-08	Make available a knowledgeable expert to discuss any planned Federal projects that are contingent on facility construction and operation (ESRP 2.8).
LU-09	Make available a knowledgeable expert to discuss sources and volumes of borrow that would be used in preconstruction and construction at the proposed site and each of the alternative sites (ESRP 4.1.1).

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LU-10	Make available a knowledgeable expert to discuss highways, railroads, and utility corridors that would be crossed by transmission lines and access corridors (ESRP 4.1.2).
LU-11	Make available a knowledgeable expert to discuss PSEG's causeway construction techniques and possible impacts on land use (ESRP 4.1.2).
LU-12	Make available a knowledgeable expert to discuss land within the transmission line corridors, the causeway corridor, and offsite areas that would be disturbed by preconstruction or construction on either a long- or short-term basis (ESRP 4.1.2).
LU-13	Make available a knowledgeable expert to discuss how development of the transmission lines and causeway could restrict land use in the transmission line corridors, the causeway corridor, and offsite areas (ESRP 4.1.2).
LU-14	Make available a knowledgeable expert to discuss plans to address the visual impact of developing new transmission line and causeway corridors or widening existing corridors (ESRP 4.1.2).
LU-15	For the proposed site and each of the alternative sites, make available a knowledgeable expert to discuss the project's potential agreement or conflict with local land-use plans and zoning ordinances, including how the operation of a new nuclear unit would either compliment or conflict with those elements. Make available records of communication on these issues with relevant Federal, State, and local agencies (ESRP 5.1.1).
LU-16	Make available a knowledgeable expert to discuss impacts from seasonal access to transmission line and other corridors that cross land in agricultural or other productive use (ESRP 5.1.2).
Transmission Lines (TL)	
TL-01	Make available a knowledgeable expert who can discuss the various (New Jersey, Delaware, and Pennsylvania) state regulatory authority's processes and procedures for identifying and obtaining approval for new transmission line routes and corridors.
TL-02	Make available a knowledgeable expert to discuss the process for selecting the new transmission line corridors.
TL-03	Make available a knowledgeable expert to discuss the GIS study of two potential transmission macro-corridors which served as the basis for the material in ER Section 9.4.3.
TL-04	Make available a knowledgeable expert to discuss compliance with NESC requirements for the proposed transmission system (ESRP 3.7).
TL-05	Make available a knowledgeable expert to discuss PSEG's general methods of transmission line construction and maintenance (e.g., tower foundations, stringing, location of access roads, span length, and clearing of corridors) (ESRP 3.7).
TL-06	Make available a knowledgeable expert to discuss basic structural design parameters for the transmission lines (ESRP 3.7).
TL-07	Make available a knowledgeable expert to discuss predicted noise levels resulting from transmission-system operation (ESRP 3.7).
TL-08	Make available a knowledgeable expert to discuss the cumulative effects of the transmission line corridor selection process. This will be in combination with discussions on species of special interest with ecology (TE and AE), wetlands, water quality factors/Hydrology, and floodplains and woodlands discussions with the land use (LU) discussions.
TL-09	Make available the New Jersey, Delaware, and Pennsylvania Natural Heritage Program (NHP) data and the U.S. Fish and Wildlife

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	Service (FWS) county data referenced for transmission corridors evaluated in ER Section 9.4.3.1. Make available similar data from the National Wetlands Inventory database and indicate the dates these data were obtained. Also, make available a knowledgeable expert to discuss the status of the consultation with the states and the FWS regarding the proposed new transmission line corridors. This discussion will be in combination with ecology and hydrology discussions.
TL-10	Make available expert to discuss estimates of the populations within 100 meters of new transmission line corridor rights-of-way.
Water Quality & Use/Hydrology/Geohydrology (HYD)	
HYD-01	Make available a knowledgeable expert to discuss detailed development of the groundwater flow model. Areas to be addressed include: • model integrations (e.g., the integration of the previous Dames and Moore site model into the current dewatering model), model studies, and the use of existing regional studies in supporting boundary conditions, • model parameters for each of the model layers (soil and hydraulic fill properties, including permeabilities or transmissivities, storage coefficients or specific yields, total and effective porosities, clay content, and bulk densities) (ER page 2.3-31), • the conservatism in parameters used in the model (for example, Kh used for each modeled layer), • the selection of boundary conditions, • the uncertainty in model predictions due to spatial variability in parameters used for each layer for pre- and post-construction site conditions, • how field data was used to incorporate hydrologic features (river, canal, creeks) into the model parameters, • spatial trends in residual head values and any observed spatial correlations, • the impacts of grid refinement on model results, and the model calibration, • the influence of model calibration and validation results on how the amount of groundwater dewatering during construction activities was determined.
HYD-02	Make available a knowledgeable expert to discuss • construction and development of wells used during characterization activities, • the variability of aquifer parameters determined through field tests including slug tests, pumping tests and borehole permeability tests, • how representative values were selected for the site conceptual model, • the potential impact of holes in the Lower Kirkwood confining units beneath the footprint of the site on transport between different aquifers, and • vadose zone information that may impact transport of pollutants to the aquifer (e.g., thickness, moisture content, etc.) (ESRP 2.3.1).
HYD-03	Make available revised versions of the two site-specific, orthogonal cross-sections across the sites which were included as ER Figures 2.3-24 and 2.3-25 to indicate the vertical direction of groundwater flow and the potentiometric surface for each hydrologic

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	layer. Make available two orthogonal cross-sections of the model grid that approximate the two hydro-stratigraphic cross-sections requested above. Make available simulated post-construction potentiometric surface maps at a scale similar to the water table maps.
HYD-04	Make available a knowledgeable expert to discuss groundwater level topics including: • the connection between tidal effects within the Delaware River and the water levels measured in wells on the site and the effect on site groundwater flowpaths, • the causal mechanisms for pervasive upward trend in site groundwater levels displayed on monitoring well hydrographs, • whether the model is in agreement with the observed horizontal and vertical gradients, • historical trends in onsite groundwater levels for periods earlier than the one year discussed in ER Section 2.3.1.2.3, • areas where the predicted water levels are above land surface for pre- and post- construction and the impacts on calibration and simulations, and • how surface water drainage ditches may be impacted by run-off.
HYD-05	Make available the following calculation packages for discussion and review: • digital copies of groundwater flow model input and output files in native formats with explanations of data and formats. • digital copies of files used for radionuclide transport analysis in native formats with explanations of data and formats. • digital copies of input and output files used for the aquifer test analysis with explanations of data and formats. • digital copies of laboratory distribution coefficient analysis results and a map showing site locations of samples submitted for analysis.
HYD-06	Make available a knowledgeable expert to discuss for surface water bodies and wetlands: estimated erosion characteristics and sediment transport, including rate, bed, and suspended load fractions, and graduation analyses; a description of the floodplain and its relationship to the site; a description of wetlands and their relationship to the site; the design-basis flood (DBF) elevation; and, where applicable, the DBF discharge. (ESRP 2.3.1)
HYD-07	Make available a knowledgeable expert to discuss descriptions of pollutant sources with discharges to water that may interact with the plant, including locations relative to the site and the affected water bodies, and the magnitude and nature of the pollutant discharges, including spatial and temporal variations. (ESRP 2.3.2)
HYD-08	Make available a knowledgeable expert to discuss 303(d) lists of pre-existing aquatic environmental stresses and their effects on surface or groundwater quality for waters that interact with the plant (e.g., water bodies at or near the site that do not meet established water-quality standards). (ESRP 2.3.2)
HYD-09	Make available information on the status of the NJPDES permit and any 316(a/b) demonstrations. (ESRP 3.4.1).
HYD-10	For intake systems, make available a knowledgeable expert to discuss: 1. a drawing of the intake structure that shows the relationship of the structure to the water surface, bottom geometry, and shoreline; 2. a description of the cooling water pumping facility;

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	3. a description of the trash racks, traveling screens, trash baskets, and fish-return devices; 4. performance characteristics (e.g., flow rates, intake velocities) for the operational modes identified by ESRP 3.4.1; 5. performance characteristics for specific intake-related functions, such as de-icing, trash-rack clearing, screen washing, trash basket removal, or fish-return system operation; and 6. the location and description of components for the addition of chemicals (e.g., corrosion inhibitors or antifouling agents) to the intake system. (ESRP 3.4.2)
HYD-11	For heat dissipation systems, make available a knowledgeable expert to discuss: 1. the location of heat dissipation system components relative to other site features; 2. the design details of heat dissipation system components affecting system performance, including the cooling towers; and 3. heat dissipation system performance analyses based on the manufacturer's design data and site-specific meteorological and hydrological data. (ESRP 3.4.2)
HYD-12	For discharge systems, make available a knowledgeable expert to discuss: 1. drawings of the outfall structure, showing its location in the receiving water body, relationship to water surface, bottom geometry, and shoreline; 2. a description of discharge canal or discharge lines; 3. performance characteristics (e.g., discharge flow rates, discharge velocities, discharge temperatures, temperature differentials) for the operational modes identified by ESRP 3.4.1; and 4. descriptions of specific discharge-related components (e.g., diffusers, fish barriers). (ESRP 3.4.2)
HYD-13	Make available a knowledgeable expert to discuss potential changes to surface water and groundwater quality (e.g., heavy metal contamination) resulting from substrate exposure during construction. (ESRP 4.2.2)
HYD-14	Make available a knowledgeable expert to discuss the following information for numerical surface water models: (a) theory, assumptions, and basis for applicability; (b) procedures used to estimate model parameters (e.g., diffusion coefficients); (c) model verification; and (d) predicted temperature distributions, areas for isotherms, dilution rates, and time of passage through plume. (ESRP 5.3.2.1) Make available for review and discussion a copy of the CORMIX input files and calculation package, and make available a knowledgeable expert to discuss discharge plume modeling, results, and conclusions.
HYD-15	Make available a knowledgeable expert to discuss the chemical treatment used in the CWS for biological control and impacts to surface water quality and that the chemicals used are in accordance with appropriate permits (ESRP 5.2.3.1.1). Make available a list of chemicals processed through each system (e.g., corrosion inhibitors, antifouling agents) and total amounts used per year, frequency of use, and concentrations of these chemicals or their products in each waste stream (ESRP 3.6.1). Make available a knowledgeable expert to discuss efforts to identify activities of other agencies and projects that may contribute to a cumulative impact on the water-related impacts of the proposed waste discharge systems. Make available a knowledgeable expert to describe quantitative data on the chemical characteristics of surface water and/or

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	groundwater in the site and vicinity, including seasonal ranges and averages and historical extremes (ESRP 6.6).
HYD-16	Make available a knowledgeable expert to: discuss the documentation of data quality objectives (if any) (ESRP 6.3); describe reference or calibration standards used to verify accuracy of methods statistical methods used to interpret results (ESRP 6.6); describe the automated monitoring systems used (ESRP 6.6); discuss the monitoring equipment, data analysis procedures and documentation of data quality objectives for all stations monitoring groundwater; and discuss how the effluent and ambient monitoring systems and procedures would be designed to enable permitting and compliance with the New Jersey Pollutant Discharge Elimination System (NJPDES).
HYD-17	Make available a knowledgeable expert to discuss the proposed heat dissipation system for each potential alternative, as follows: 1. land-use requirements; 2. water-use requirements; 3. operating and maintenance experience for similar units; 4. effect on generating efficiency; 5. predicted thermal and physical effects (e.g., thermal plume, scouring); 6. predicted atmospheric effects (e.g., fogging, icing, drift); 7. predicted operating noise levels; 8. predicted aesthetic effect (e.g., visual plumes); and 9. predicted recreational benefits (ESRP 9.4.1).
HYD-18	For alternative intake systems, make available a knowledgeable expert to discuss: 1. sketches or preliminary designs and operational characteristics of alternative intake systems, showing the intake design and its relationship to water surface, bottom geometry, shoreline, and discharge structure; 2. alternative pumping facilities, if proposed; 3. alternative locations of the proposed intake system and pumping facility on the same water body; 4. alternative procedures and schedules for intake defouling, including any use of defouling chemicals; 5. descriptions and operational characteristics of any alternative trash racks, traveling screens, trash baskets, or fish-return systems; and 6. predicted physical impacts from hydrologic alternatives and impacts to aquatic ecosystems, including entrapment, impingement, and entrainment, for each alternative intake system (ESRP 9.4.1).
HYD-19	For alternative discharge systems, make available a knowledgeable expert to discuss: 1. sketches or preliminary designs and operational characteristics of alternative discharge systems, showing the discharge design, its location with respect to the receiving water body, and its relationship to water surface, bottom geometry, intake structure, and shoreline 2. description of alternative discharge lines (or canals) from the heat-dissipation system to the receiving water body; 3. description of alternative locations of the proposed discharge system on the same water body; and 4. estimated physical impacts from hydrologic alterations and impacts to aquatic biota for each alternative discharge system (ESRP 9.4.2).

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HYD-20	For alternative water treatment, make available a knowledgeable expert to discuss: 1. description and purpose of alternative water-treatment systems for the circulating water system and the facility (service) water system; 2. chemicals and additives (or mechanical treatment) to be used in each alternative water-treatment system; and 3. operating cycles for each alternative water-treatment system (ESRP 9.4.2).
HYD-21	Make available a knowledgeable expert to discuss post-construction grading plans, planned placement of engineered fill, and the impact this would have on infiltration and surface runoff characteristics, groundwater gradients, and flow paths.
Terrestrial Ecology (TE)	
TE-01	Make available a knowledgeable expert to discuss the following issues with regard to wildlife populations that could be potentially affected by the project: • Details on specific areas of migratory and wintering shorebird concentrations in the area, and approximate numbers. • Details on any state-listed wading birds that potentially use the area, including any species on "special concern" lists. If state-listed wading birds are potentially using the site, life history information is needed for each species. • Tern species that might be using the area. Certain tern species are state and/or federally listed. If listed terns are potentially using the site, life history information should be made available for each species. • Details on bat populations that may be frequenting the area. In addition, an estimate of potential bat collisions associated with elevated construction equipment and cooling towers is needed. • Bat interactions with proposed power lines, including potential electrocution or physical collision. • Life history information focused on behavior of species at the times of year when they are present in the area. For instance, discussions of waterfowl species should focus on seasons when they are actually known to be present in the area. Discussions of species should focus more specifically on area-specific life history than boilerplate information, wherever possible. • Food chain information available that is specific to the area should be made available (e.g., are there certain important fish species that osprey feed on in the area?). Are there any important inter-specific relationships (e.g. osprey-eagle)? It would be helpful to have a separate map that just shows critical habitats on and adjacent to the site, if any. • Mapping of any known "important" wildlife species concentrations (e.g., local distribution and abundance of waterfowl, seasonal status, local flight patterns) should also be made available, where possible. • Locations of popular hunting areas for recreationally available species (e.g., waterfowl) in the area that might be impacted by the action. Also, any popular wildlife viewing areas (e.g., birdwatching areas). A list of parks, preserves, wildlife refuges, sanctuaries and recreation areas and their approximate distance from the project site should be made available.
TE-02	Make available a color map (or a black and white map, if necessary) that more clearly distinguishes between cover types. The color scheme used on the land cover maps in the ER makes it difficult to distinguish different cover types. This is particularly true of the "blues" used to designate wetlands. A map with more distinguishable colors or patterns would be helpful. It would also be helpful to have a map that specifically points out important habitats (e.g. spartina marsh) on and in the vicinity of the site.

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TE-03	Make available copies of the response letters from the U. S. Fish and Wildlife Service (FWS) along with other applicable agency correspondence (e.g. state).
TE-04	Make available a knowledgeable expert to discuss the potential impacts to the Mad Horse Creek Wildlife Management Area, since the proposed causeway would cross that area. Any site-specific information on the wildlife that frequents that area would be useful in order to more accurately assess the potential impacts of the proposed action.
TE-05	Make available a knowledgeable expert to discuss whether or not mosquitoes are considered a major disease vector in the area.
TE-06	Make available a knowledgeable expert to discuss further details on off-site transmission line corridors. Further details regarding waterfowl and other significant wildlife populations that frequent areas crossed by the corridors are needed. Also, any significant habitats that exist along the proposed route of the corridor. In addition, any habitat enhancement proposed specifically for rights-of-way (e.g., transformation from phragmites to spartina marsh).
TE-07	Make available a knowledgeable expert to discuss the mammal surveys conducted for the project.
TE-08	Make available a knowledgeable expert to discuss the herpetological surveys conducted for this project.
TE-09	Make available a knowledgeable expert to discuss PSEG's wildlife management practices along rights-of-way and Avian Protection Plans.
TE-10	Make available a knowledgeable expert to discuss how artificial light from the project could impact wildlife.
TE-11	Make available a knowledgeable expert to discuss threatened and endangered species potentially occurring on the PSEG site.. Also be prepared to discuss any New Jersey special concern species and Delaware rare animal species of concern that might frequent the area.
TE-12	Make available a knowledgeable expert to discuss wetland delineations, functional assessments, and other relevant wetland studies conducted in the area.
TE-13	Make available copies and a knowledge expert to discuss reports generated from the PSEG Estuary Enhancement Program (EEP) that may relate to the proposed project.
TE-14	Make available copies of all correspondence with the NJ Department of Environmental Protection (NJDEP) and the Corps regarding wetland jurisdiction, as well as copies of any letter(s) of interpretation received from NJDEP verifying wetland boundaries.
Aquatic Ecology (AE)	
AE-01	Make available references for studies that document that the Estuarine Restoration Program has resulted in increased productivity, biodiversity, function, etc. of wetlands. Also, make available related references demonstrating that the productivity, biodiversity, function, etc., of the natural and restored wetlands (i.e., spartina-dominated marsh) are of a higher quality than the phragmites-dominated wetlands.
AE-02	Make available expert to discuss any current plans for PSEG to initiate any oyster and/or sturgeon restoration activities in the Delaware River such as those related to anadromous fish migration.
AE-03	Make available expert to discuss details of any specific plans for enhancing the restoration of Atlantic Sturgeon in the Delaware Bay in the site vicinity.

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AE-05	Make available expert to discuss planned efforts to minimize construction impacts to wetlands other than those associated with the Estuarine Enhancement Program.
AE-06	Make available expert to discuss the annual mean flow of the Delaware River near the site that could be used by cooling towers for the new facility and by the simultaneous operation of all facilities (new unit, SGS, HCGS).
AE-07	Make available a knowledgeable expert to discuss the following: white perch, Atlantic croaker, and weakfish impinged over the year at existing site and the types of the impinged individuals of these three species?
AE-08	Make available a knowledgeable expert to discuss whether any habitat in the Mad Horse Creek Wildlife Management Area or in any other wildlife management areas would be affected by pre-construction or construction activities.
AE-09	Make available a knowledgeable expert to discuss the following: (1) nuisance, invasive and non-native animal species in the area of the site and within the area of the transmission and causeway corridors; (2) during the warmer periods of the year, would nutrients and temperatures in the area of the thermal plume be of sufficient levels to cause algae blooms; (3) have algae blooms ever been observed in the thermal discharge areas of SGS and HCGS during the summer; and (4) have incidences of the “ship worm” (Teredo worm = family *Teredinidae*) ever been reported in areas downstream from the thermal discharge?
AE-10	Make available an expert to discuss information/data relative to the levels of contaminants, particularly mercury and PCBs, in sediments at the site vicinity where dredging would occur. Also, be prepared to discuss the temperature structure of the river in the site area during summer and during drought periods and the potential effects on resident organisms (including benthic invertebrates). This would include the potential effects due to the new units and existing units.
AE-11	Make available a knowledgeable expert to discuss the procedures or mitigative actions that would be employed during dredging operations to minimize re-suspension of sediments into the water column.
AE-12	Make available a knowledgeable expert to discuss evidence or documentation that there is no important habitat for striped bass in the site vicinity, such as that related to spawning and nursery function.
AE-13	Make available a copy of the compensatory mitigation plan that has been developed to minimize wetland impacts.
AE-14	Make available a larger and more detailed map of ER Figure 3.1-2 showing barge area and intake and discharge structures along the Delaware River.
AE-15	Make available an expert to discuss information about the following topics regarding dredging: (1) would dredging be limited to periods of the year when biological activity is lowest to minimize potential ecological impacts; (2) during dredging, would water quality measurements be made within the turbidity plume, such as particulate-associated heavy metals suspended in the water column?; and (3) during pre-construction or construction activities, would structures such as cofferdams be installed around the in-water work areas to minimize effects of dredging (4) discuss potential dredging effects on dissolved oxygen levels in the water column during dredging activities, and also to discuss information relative to whether subsurface sediments in the vicinity of the site are anaerobic. Make available a summary table of basic water quality data (i.e., dissolved oxygen, pH, conductivity, turbidity, contaminant data) that were collected in areas of dredging during peak periods of dredging activities at SGS and HCGS.
AE-17	Make available a knowledgeable expert to discuss how the dredging operations for the intake structures and resulting bathymetry would affect the hydrodynamics and water circulation patterns leading to the intake screens. The expert should also discuss information relative to how dredging operations and the resulting bathymetry near the intake screens would affect the hydrodynamic or circulation patterns near the screens.

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AE-18	Make available a knowledgeable expert to discuss the following: (1) thermal temperature discharge and plume of the new unit and SGS and HCGS; (2) contribution of the proposed facility to the thermal plume along with the thermal discharges from both SGS and HCGS; (3) the areal extent (acres) of plume from the proposed facility and all facilities during various periods of the year.
AE-19	Make available a knowledgeable expert to discuss the following: (1) effects of thermal plume on white perch, weakfish, or Atlantic croaker; (2) the probability of cold shock in winter when some fish may "congregate" in the thermal plume; (3) instances of historical cold shock events during operation of SGS or HCGS?; (4) previous biological surveys during operation of SGS and HCGS that some fish species are attracted to and/or reside temporally in the thermal plume area during winter; and (5) any periods when both SGS and HCGS were both non-operational during the winter months?
AE-20	Make available a knowledgeable expert to discuss whether there are additional activities planned by other agencies in the future (other than the Corps channel deepening project and the habitat restoration project at Mad Horse Wildlife Management area) for the Delaware River in the site vicinity and/or the wetlands areas north of the site that could potentially impact aquatic resources of the Delaware Bay.
AE-21	Make available a knowledgeable expert to discuss other specific design or operational measures to be implemented to minimize potential adverse impacts of the cooling system operation (such as wedge-wire intake screens) in addition to the use of closed-cycle cooling, minimum velocity (<0.5 ft/sec) at intake screen, and compliance with 316(b) "as best technology."
AE-22	For the estimated impingement rate for white perch, weakfish, and Atlantic croaker at the proposed facility (ER Table 5.3-2), have an knowledgeable expert available to discuss the following: (1) what would be the projected total number of individuals impinged for each of these three species on an annual (over a 12-month period) basis?; (2) what fraction or proportion of this annual impingement for each of these three species would this be compared to the annual sport and/or commercial landing of these respective species for the entire Delaware River or Bay system or for any area within a 50 mile radius of the site and (3) statistics on the total number of each of these three important species impinged over a year at all facilities (proposed facility, SGS, HCGS).
AE-23	Make available a knowledge expert to discuss information on the following: (1) of the annual mean entrainment rate of 10.76 striped bass larvae and juveniles/100m^3, what percentage (approximate) of this number is larvae; (2) depth in the water column at mean low tide is the intake for the proposed cooling water system; (3) ichytoplankton surveys using plankton net tows been taken in the vicinity of the intake structure of the current operating facilities?; (4) the average depth (feet or meters) the tows are usually taken; and (5) the average density of striped bass larvae in these tows averaged over a spring season or over a year.
AE-24	Using the annual mean entrainment rate of 10.76 striped bass larvae and juveniles/100m^3 (ER Table 5.3-3), a normal makeup water flow of 78,200 gallons/minute, and assuming that the proposed cooling system operates for the same percentage of the year as did SGS from 2003-2007, make available knowledge expert to discuss: (1) the approximate total number of striped bass larvae and juveniles entrained in one year at the proposed facility; (2) the total sport and commercial landing (separate or combined statistics) for striped bass in the Delaware Bay vicinity and (3) the approximate number of striped bass larvae entrained in one year for all facilities operating simultaneously (proposed facility, SGS, and HCGS).
AE-25	Make available a table and expert to discuss all aquatic federally and state-listed endangered, threatened, or species of concern in the vicinity of the proposed site and within the proposed transmission line and causeway corridors, and include the federal and state status of each species. Also include in this table candidate species for listing. Include fish species, invertebrates, reptiles, amphibians, and birds. Also, for each species listed in this table indicate whether they are relatively common (RC), occur occasionally (OC), rare (R), or potentially occur (PO) in the site vicinity or in other areas such as wetlands potentially affected by

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	preconstruction or construction activities.
AE-26	Make available a table and expert to discuss the following: (1) the main water quality constituents expected in the cooling tower blowdown to the Delaware River expressed as mg/L (e.g., chloride, iron, nitrate-N, total P, sulfate, total DS, and any elevated metals); (2) the ambient concentrations of these constituents in the Delaware River in the area of the blowdown; and (3) the State or other discharge water quality regulatory criterion of each constituent.
AE-27	Make available an expert to discuss the ichthyoplankton communities of the Delaware River in the area of the site, including those species that are dominant on a seasonal basis.
AE-28	Make available a knowledgeable expert to discuss the specifics of the aquatic ecology monitoring plan for both the construction and operational phases.
Socioeconomics & Environmental Justice (SOC)	
SOC-01	Make available the author of the appropriate sections to discuss the following topics related to physical components of the proposed project: (a) clarification of the timing of causeway construction to clarify the apparent inconsistency between statements in ER Section 4.4.2, which states that causeway construction would begin at approximately the same time as power plant construction, and ER Section 4.4.1.5, which states that construction-related traffic would primarily use the proposed causeway; and (b) clarification as to whether employees of HCGS and SGS would use the proposed causeway as a commuting route.
SOC-02	Make available the author of the appropriate sections to discuss the following topics regarding economic trends in the 50-mile region and the region of influence (ROI): (a) recent employment, income, and labor force data reflecting the effects of the recent recession; (b) future economic outlook for the region based on consultation with cognizant state and local officials; (c) basis of conclusion in ER Section 2.5.2.1.1.2 that there may be limited availability of some construction worker categories in the region; and (d) updated information on the status of Valero Oil Refinery (reported in the ER to be at least temporarily closed).
SOC-03	Make available the author of the appropriate sections to discuss the following topics related to existing public services in the ROI: (a) information on the capacities and current and projected enrollment-to-capacity ratios for school districts in the New Jersey counties of the ROI; (b) information on the amount of additional school capacity planned by each county in the ROI as referenced in ER Section 2.5.2.5.2.1; (c) any relevant maximum student to teacher ratios for all levels of public school that are imposed by the appropriate authorities, along with identification of any schools that currently or will in the future surpass these ratios; (d) information on locations and current and projected capacities and percent of use of recreation facilities in the ROI, including identification of how many spaces in the recreation facilities are suitable for long-term visitors (i.e., have utility hook-ups), along with current and projected capacity utilization rates for those long-term spaces; (e) information regarding the projected demand for water supply and wastewater treatment for all utility districts in the ROI through the expected life of the proposed project (particularly important for districts shown in ER Tables 2.5-38 and 2.5-39 as having demand at or near capacity); (f) information on the percentages of land area and population of each county in the ROI that are not served by current water and wastewater districts; (g) discussion of the basis and effect of the assumption in ER Section 2.5.2.9.1.1 that all customers of the Penns Grove water system reside in Salem County; (h) information on how the ratios of residents-to-police officer and residents-to-firefighters in ER Table 2.5-40 compare to state and national standards; (i) information on the projected capacities and utilization rates of health care facilities in each county of the ROI through the expected life of the proposed project; (j) information on the ability of social service providers (government

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	offices, non-profit organizations, and religious entities) described in ER Section 2.5.2.9.2.4 to respond to increased demand for their services; (k) identification of local planning authorities in addition to the regional authorities discussed in ER Section 2.5.2.2.2; and (l) identification and availability of NGOs, non-profit, and faith-based social service organizations.
SOC-04	Make available the author of the appropriate sections to discuss the following topics related to the housing environment in the region and ROI: (a) information on residential turnover, trends in additions to the housing stock, and the adequacy of structures in the housing inventory; (b) recent data or results of consultation with state and local housing officials that reflect changes in the housing inventory and market since 2007 and the effect of these changes on the availability of housing over the expected life of the proposed project, including planned re-zonings and other residential development plans; and (c) information regarding rental properties such as hotels, motels, RV parks.
SOC-05	Make available the author of the appropriate sections to discuss the following topics related to the current system of tax collection and revenue distribution: (a) more specific tax rate information than presented in ER Table 2.5-29 to support estimates of the corporate, property, and sales taxes that would be paid directly by PSEG for the proposed project and the income, property, and sales taxes that would be paid by construction and operations employees, including an explicit statement of the estimated local purchase levels anticipated by the applicant during construction and operations of the proposed project; (b) information regarding the types of purchases and real property that are exempt from New Jersey sales and property taxes as described in ER Section 2.5.2.2.1.2; and (c) information on how state and local tax revenues are distributed to fund public services (especially schools).
SOC-06	Make available the author of the appropriate sections to discuss the following topics related to the existing and planned transportation system in the ROI: (a) availability of peak-hour traffic counts or estimates for the roadway segments listed in ER Table 2.5-43 along with current LOSs for these segments; (b) clarification as to whether the traffic count locations on ER Figure 2.5-7 correspond (in order) to the roadway locations listed in ER Table 2.5-43 and make available a clear cross reference between the traffic count locations and their locations on Figure 2.5-7; (c) maps showing (in highlight) the locations of all major highways and site access routes described in the first two paragraphs of ER Section 2.5.2.10.1; (d) additional information regarding the planned transportation projects described in ER Section 2.5.2.10.1, including their projected effects on roadway capacity and their locations (described and mapped); and (e) information regarding the weight ratings of roadways and bridges that would be used by all heavy vehicles during project preconstruction, construction, and operations.
SOC-07	Make available the author of the appropriate sections to discuss the following topics related to the description of current environmental justice concerns:(a) results of consultation with state and local agencies and organizations regarding minority and low-income communities and their resources, customs, practices, and circumstances (ESRP 2.5.4), including documentation of such contacts; (b) more detailed maps identifying environmental justice block group populations of interest within a 10-mile radius of the proposed project, including a distance scale; (c) confirmation of the date and sources of data presented in ER Table 2.5-47; (d) clarification of the term “minority population” in the two bullets following the first paragraph of ER Section 2.5.4.3 (should the term be “low-income population”?); (d) the availability of more recent data on low-income populations reflecting the recent economic downturn; (e) clarification of the finding reported in the first paragraph of ER Section 2.5.4.6 that the Census of Agriculture is “inconclusive” regarding the number of migrant workers in each county; (f) identification of any migrant worker residential or employment locations within 10 mi of the proposed plant; and (g) information regarding any subsistence practices along the Delaware River, especially with regards to the oyster industry. (NOTE: “subsistence practices” includes any personal use of natural resources as a supplement to income (not as a hobby or vocation), including fishing, hunting, vegetable gardening, and vegetation

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	gathering.)
SOC-08	Make available the author of the appropriate sections to discuss the following topics related to the project construction workforce: (a) clarification as to whether estimates of the number of construction workers presented in the ER include workers who would build the proposed causeway, and, if not, estimate the number of workers who would be required for this effort, the length of the causeway construction period, and when in the schedule the causeway would be built; and (b) information regarding the number of and the months during the construction period when specialist workers from outside the region (certified welders, boilermakers, electricians, insulation workers, millwrights, and structural iron and steel workers) are expected to be employed.
SOC-09	Make available the author of the appropriate sections to discuss the following topics related to the noise impacts of constructing the proposed project: (a) noise impacts associated with simultaneous operation of multiple pieces of noise-producing equipment during project construction; (b) information on the impact of noise produced by trucks carrying construction materials and wastes to and from the construction site on affected neighborhoods and sensitive receptors; and (c) additional information regarding noise levels that would be experienced by the closest residents to the site, in urban residential areas of Salem City and Hancocks Bridge, and to the closest minority and low-income populations of interest due to construction traffic during shift changes.
SOC-10	Make available the author of the appropriate sections to discuss the following topics related to air quality impacts associated with construction of the proposed project: (a) methods to quantitatively estimate air pollution levels at sensitive receptors in the vicinity of the construction site (ESRP 4.4.1); (b) applicable federal, state or local standards governing fugitive dust and gaseous pollutants during construction; and (c) consideration of the air quality impacts of simultaneous operation of multiple pieces of pollution-emitting equipment during project construction.
SOC-11	Make available the author of the appropriate sections to discuss the following topics related to the transportation impacts of constructing the proposed project: (a) explanation of the methods used to calculate traffic increases associated with project construction as reported in ER Sections 4.4.1.1.1.1 and 4.4.1.5; (b) clarification as to whether the term “Future No-Build” in ER Table 4.4-2 means that the proposed power plant is not constructed or that only the causeway is not built, and make available greater detail by providing both scenarios—“Future No-Build of the Proposed Project” (nuclear units and causeway) and “Future No-Build of Only the Causeway”; (c) clarification of the meaning of the superscript “2” appearing in ER Table 4.4-2; (d) elaboration on how PSEG would implement the potential roadway mitigation measures described in ER Section 4.4.1.5, which would typically be implemented by a public transportation agency; (e) impacts of increased vehicular traffic and the potential roadway mitigation measures on the community structure of Salem City and other affected areas; (f) anticipated impacts on roadway conditions associated with the use of secondary and local roads by trucks delivering supplies and heavy equipment to the construction site; and (g) impact of construction barge traffic/recreation on the Delaware River.
SOC-12	Make available for review a copy of the traffic impact assessment performed by PSEG and mentioned in ER Section 4.4.1.5.
SOC-13	Make available the author of the appropriate sections to discuss the estimated amounts of recyclable and non-recyclable solid wastes that would be generated during construction and the current and projected unused capacities of recycling facilities and landfills that would accept these wastes.
SOC-14	Make available for review a copy of ER reference 4.4-12: Nuclear Energy Institute, *Economic Benefits of Salem and Hope Creek Nuclear Generating Stations: An Economic Impact Study by the Nuclear Energy Institute,* Washington DC, September 2006.

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SOC-15	Make available the author of the appropriate sections to explain the methodology used in ER Section 4.4.2.2.1 (paragraph 4) to calculate the number of additional indirect jobs in the ROI and 3-state area that would be created as a result of project construction spending. Make available all appropriate references.
SOC-16	Make available the author of the appropriate sections to discuss possible quantification of construction impacts on tax receipts of state and local governments by estimating (a) annual expenditures in the region and ROI for construction materials and services (see SOC-05), (b) payroll and average wages for construction workers, and (c) the resulting types and amounts of taxes that would be paid to each governmental unit (ESRP 4.4.2).
SOC-17	Make available the author of the appropriate sections to discuss the following topics related to housing impacts of constructing the proposed project: (a) how the national downturn in the housing market experienced since 2007 affects the assessment of housing impacts reported in ER Section 4.4.2.2.4; and (b) extension of the discussions in ER Section 4.4.2.2.4 to address construction-related impacts (preferably quantified) on specific sectors of the housing market in the ROI, including the single-family, multi-family, mobile home, and RV markets (see SOC-04).
SOC-18	Make available the author of the appropriate sections to discuss the following topics related to construction period impacts on public services: (a) augmentation of discussions in ER Section 4.4.2.2.7 to estimate the number of additional students for different levels of schools (elementary, middle, and high schools) in the ROI and comparison of these estimates to corresponding projections of unused capacity in each county; and (b) detailed discussion of direct and indirect construction impacts on recreational facilities within 10 miles of the proposed project similar to the operations impacts described in ER Section 5.8.1.2 (see SOC-03).
SOC-19	Make available the author of the appropriate sections to discuss the following topics related to environmental justice impacts of constructing the proposed project: (a) documentation of "outreach efforts undertaken to identify minority and low-income populations [and] . . . their cultural, economic, and health conditions and unique lifestyle and practices that could result in disproportionate impacts" (ESRP 4.4.3); (b) the relationship between environmental justice areas and areas of project impact, particularly the relationship between black, aggregate, and low-income areas in and near Salem City and areas impacted by construction traffic, including the distance between the proposed project and the closest three minority and low-income populations of interest (for each EJ category separately, not in aggregate); (c) evidence to support the conclusion in ER Section 4.4.3.3 that beneficial project economic and fiscal impacts "are proportionately spread across the general and environmental justice populations," including evidence that residents of environmental justice areas have skill levels comparable to the general population and would thus be expected to share equally in construction employment; (d) more detailed information on the possible locations of off-site transmission lines and their relationship to environmental justice populations; (e) analytical basis for the conclusion in ER Section 4.4.3.3 that the land use impact of construction "does not result in disproportionate impacts to environmental justice communities"; (f) traffic-related impacts on environmental justice populations in proximity to project related roads and highways beyond the level-of-service impact, such as noise, emissions, safety, and community identity/cohesion; and (g) consideration of the extent to which housing availability and conditions in environmental justice areas may differ from the overall counties and thus lead to disproportional impacts on these areas.
SOC-20	Make available the author of the appropriate sections to discuss the following topics related to physical impacts of operating the proposed project: (a) confirmation that paragraph 1 of ER Section 5.8.1.2 should reference Table 2.5-8 rather than 2.5-7 for data on the distribution of resident population and that transient population projections are reported in Table 2.5-5 and only for distance increments; (b) the potential for operational noise, emissions, salt drift, fogging, and icing to affect residential and recreational areas

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	in the vicinity; (c) explanation of the basis for the conclusion in ER Section 5.8.1.4 that "final modeling will demonstrate that the new plant complies with the NAAQS, NJAAQS, and PSD increments, and assure that the impacts to air quality are SMALL" in light of the preceding discussion indicating that project emissions are likely to exceed SIL for some categories of pollutants; and (d) effects of air and thermal emissions on sensitive individuals in the vicinity.
SOC-21	Make available the author of the appropriate sections to discuss the following topics related to the economic impacts of operating the proposed project: (a) quantification of the expected operational payroll of the proposed plant and expected annual operational expenditures for goods and services in the region and ROI; and (b) explanation of the methodology used to calculate the estimate of 185 indirectly created jobs in the ROI and 1267 jobs in the 3-state area as reported in ER Section 5.8.2.2.1, paragraph 4.
SOC-22	Make available the author of the appropriate sections to discuss the following topics related to operational impacts on taxes: (a) estimates of annual personal and corporate income taxes that would be paid to each affected state and local government as a direct result of project operations and indirectly due to induced job growth; (b) estimates of annual sales tax payments to affected state and local governments associated with direct PSEG purchases, electricity sales by PSEG, and purchases by operational employees; (c) estimates of annual increased property tax payments to county and municipal governments in the ROI, including taxes paid directly by PSEG and those paid by operational employees; and (d) the applicant's expectations as to whether a fee-in-lieu-of-taxes or any other tax incentive would be used.
SOC-23	Make available the author of the appropriate sections to discuss potential impacts of population growth induced by project operations on specific public water supply and wastewater disposal systems in the ROI, particularly those identified in ER Tables 2.5-38 and 2.5-39 as having usage levels at or approaching their capacities.
SOC-24	Make available the author of the appropriate sections to discuss the following topics related to potential impacts of project operations on environmental justice: (a) evidence to support the conclusion expressed in ER Section 5.8.3.3 that project economic benefits "are proportionately spread across the general and environmental justice populations," with consideration of the degree to which people in these areas possess the education and skill levels to share proportionately in the employment benefits of the project; and (b) environmental justice implications of the finding in ER Section 5.8.1.3 that some receptors (apparently residences in Salem City and Hancocks Bridge) may experience traffic noise levels exceeding the NJ standard for continuous noise levels.
SOC-25	Make available the author of the appropriate sections to discuss the following topics related to the socioeconomic impacts of constructing and operating a nuclear power plant at any of the alternate sites: (a) availability of more recent demographic, economic, and housing data describing the environment of the alternate sites; (b) maps showing the locations of minority and low-income populations in the region of each alternative site; (c) the distance between each proposed alternative site and the three closest populations of interest for each EJ category (separately, not in aggregate); (d) explanation as to whether the greater amount of land to be acquired for an alternative site (886 – 1128 ac versus 85 ac for the preferred site) would result in an increase in the amount of property tax paid directly by the project and whether this would affect the conclusions that the alternative sites would have smaller impacts on local tax revenues than the preferred site; and (e) availability of peak-hour traffic counts or estimates for roadways that would be affected by project construction and operations at each alternative site.
Historic & Cultural Resources (CR)	
CR-01	Make available a knowledgeable expert to discuss surveys and consultation with the State Historic Preservation Office (SHPO) that would be conducted prior to, and any mitigation measures that would be implemented as a result of, any ground disturbance

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	activities associated with preconstruction or construction activities. ER Section 2.5.3.3.1 describes a Phase I archaeological survey for a portion of the proposed causeway, and ER Section 2.5.3.3.2 describes an underwater archaeological survey near the proposed intake and barge facility. In addition, discuss the comments on the surveys by the New Jersey or Delaware SHPOs or tribes or interested parties. Further, please have copies of documentation of consultation with the New Jersey or Delaware SHPOs or tribes or interested parties. ER Sections 4.1.3.2 and 4.1.3.3 discuss routing the causeway and transmission line corridors to avoid archaeological sites and historic properties, and add that mitigation would be implemented where impacts cannot be avoided. Be prepared to discuss plans for mitigation.
CR-02	Make available copies of previous cultural investigations within a 16-km (10-mi) radius of the ESP site including consultations performed for construction or license renewal of SGS or HCGS. (ESRP 2.5.3)
CR-03	Make available a knowledgeable expert to discuss the distinction between preconstruction and construction impacts to cultural resources at the proposed site and the alternative sites, including transmission corridors and access roads corridors. (ESRP 2.5.3)
CR-04	Make available a knowledgeable expert to discuss the area of potential effect (APE) of proposed plant activities on cultural resources, including a visual APE for historic structures and for traditional cultural properties (TCP), if appropriate. ER Section 4.1.3 defines the APE for on-site and near off-site areas, the right-of-way for the proposed causeway, and the 200-ft right-of-way of the hypothetical off-site transmission corridor, please be prepared to discuss all of these locations. (ESRP 2.5.3)
CR-05	Make available a knowledgeable expert to describe past and recent surveys conducted in the areas of potential effect, including the basis for surveys and qualifications of surveyors. ER Section 2.5.3.3.1 describes a Phase I archaeological survey for a portion of the proposed causeway, and Section 2.5.3.3.2 describes an underwater archaeological survey near the proposed intake and barge facility. (ESRP 2.5.3).
CR-06	Make available for review the cultural resource survey reports along with any comments by the SHPO or others (e.g., tribes and interested parties) related to preconstruction and construction activities. Make available a knowledgeable expert to discuss the survey reports. (ESRP 2.5.3)
CR-07	Make available a knowledgeable expert to discuss all cultural resource surveys that have not been completed for the proposed project, as well as a description of the agreements and procedures/plans that the applicant has made with the State to ensure completion of surveys in the future. (ESRP 2.5.3)
CR-08	Make available a knowledgeable expert to describe consultation efforts made with State and Federal agencies, Indian tribes, and interested parties. Further, any documentation of consultation (e.g., letters memos from conversations, etc.) with the New Jersey or Delaware SHPOs or tribes. (ESRP 2.5.3)
CR-09	Make available a knowledgeable expert to discuss the impacts that could occur to important cultural and historic resources from preconstruction and construction activities. Including, the assessments for the proposed causeway and transmission line corridors are very general. (ESRP 4.1.3)
CR-10	Make available documentation of the New Jersey and Delaware SHPO comments on the impact of the proposed project on important historic properties. (ESRP 4.1.3)
CR-11	Make available a knowledgeable expert to discuss New Jersey and Delaware state laws and plans for historic preservation and human remains. (ESRP 4.1.3)
CR-12	Make available a knowledgeable expert to discuss PSEG's procedures for identifying the potential for human remains to occur in

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	the project and for complying with provisions of the Native American Graves Protection and Repatriation Act in the event of an inadvertent discovery. Areas include the Federal lands (i.e., the Corps lands), and the proposed transmission line corridors. (ESRP 4.1.3)
CR-13	Make available a knowledgeable expert to discuss measures to avoid impacts to important cultural and historical resources during construction, or proposed mitigation measures. (ESRP 4.1.3)
CR-14	Make available a knowledgeable expert to discuss measures to avoid impact to important cultural and historical resources during operations, or proposed mitigation measures. (ESRP 5.1.3)
CR-15	Make available a knowledgeable expert to discuss cumulative impacts to cultural resources, including those associated with preconstruction activities. (ESRP 4.7)
CR-16	Make available a knowledgeable expert to discuss how the proposed land exchange with the Corps, construction and operation of the new plant, and construction and operation of the proposed causeway and transmission corridor would affect the viewshed of the historic 1722 Abel and Mary Nicholson pattern brick house. Discuss possible measures to avoid impacts, as well as possible mitigation measures.
CR-17	Make available a knowledgeable expert to discuss how the proposed land exchange with the Corps, construction and operation of the new plant, and construction and operation of the proposed causeway and transmission corridor would affect the Fort Elfsborg historical site. Discuss possible measures to avoid impacts, as well as possible mitigation measures.
CR-18	Make available a knowledgeable expert to discuss how construction and operation of the proposed barge facility and water intake would affect probable shipwreck locations identified in an underwater survey. Discuss possible measures to avoid impacts, as well as possible mitigation measures.
CR-19	Make available a knowledgeable expert to discuss how construction and operation of the proposed causeway and transmission corridors would affect archaeological resources. Discuss possible measures to avoid impacts, as well as possible mitigation measures.
Meteorology & Air Quality (MET)	
MET-01	Make available for review a detailed description of the Air Quality Control Region (AQCR) boundaries in the vicinity of the site.
MET-02	Make available a knowledgeable expert to discuss and review the values for χ/Q and D/Q used in ER Section 7.1.2.
MET-03	Make available for review a description of short- and long-term estimates of χ/Q and D/Q.
MET-04	Make available a knowledgeable expert to discuss information on transportation/vehicle estimates for construction: number of workers, number of daily worker trips, number of daily deliveries, manner of deliveries (truck, rail, or other), area of site disturbance, volume of excavation, manner of removal/disposal of excavated materials, duration of construction activities, length and type (dirt or asphalt) of access roads.
MET-05	Make available for review a copy of the currently existing Dust Control Plan (or similar) used for any earthmoving or use of dirt roads (if any).
MET-06	Make available for review a copy of the currently existing Emission Control Plan (or similar) associated with vehicle, generator, or equipment use (if any).

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MET-07	Make available for review a copy of the plan for monitoring compliance with air quality permits during construction (if any). Also, make available a knowledgeable expert to discuss and review the assessment of air quality impacts from preconstruction and construction in ER Section 4.4.1.3.
MET-08	Make available for review the model estimates for AQ impacts during construction using emission values mentioned in ER Section 4.4 (page 4.4-6).
MET-09	Make available a knowledgeable expert to explain the values reported in ER Table 5.8-2 for PM2.5 and PM10 estimates of H2H that are identical by AEROMOD. Also, make available for review the PM2.5 emissions data used in the AEROMOD calculation and the input data sets used for AEROMOD for verification.
MET-10	Make available for review a copy of the SACTI model description and input/output data files.
MET-11	Make available for review maps of air quality/meteorological and radiological monitoring stations and monitoring plan.
MET-12	Make available a knowledgeable expert to discuss meteorology monitoring as described in ER Section 6.4. This should include a tour of the current meteorological equipment and a meeting with staff that operate and maintain the meteorological equipment (Section 6.4). This should also include an opportunity to review the instrument maintenance records.
Non-Radiological Health/Noise (NRH)	
NRH-01	Make available a knowledgeable expert to discuss the sewage treatment system for the new plant in relation to the existing system (ER Section 3.6.2). For example, is the capacity of the existing sewage treatment system sufficient to accept additional influent from the new plant and construction activities, or would the existing system be expanded to two units? Also, the influent rate from the new plant is listed as 93 gpm and effluent discharge from the sanitary waste water system is 93 gpm. Is 93 gpm effluent discharge for the entire sewage treatment system (2 units) and does it include input from the new plant? Does the 93 gpm discharge go to the existing common plant outfall? Provide clarification.
NRH-02	Make available a knowledgeable expert to discuss construction worker health (i.e., injury rate) during activities associated with constructing the new reactors and supporting facilities (ER Section 4.4.1.1.2). Make available references for PSEG construction worker injury rates and health and safety plans. Likewise, make available data on construction worker health (i.e., injury rate) during construction of the proposed causeway.
NRH-03	Make available a knowledgeable expert to discuss monitoring of cooling towers and cooling tower waters for thermophilic microorganisms for potential exposure to on-site workers (ER Section 4.4.1.1.2). Make available a discussion of the PPE and procedures for cooling tower maintenance.
NRH-04	Make available a knowledgeable expert to discuss acute effects (i.e., shock) from EMF associated with the potential new off-site transmission line and adherence to applicable standards (i.e., 5-milliamp NESC standard) (ER Section 4.4.1.1.1.2.2).
NRH-05	Make available a knowledgeable expert to discuss thermophilic and pathogenic microorganism sampling events at the PSEG site and the Delaware River ER (Section 5.3.3.4.1). Make available additional references or information regarding the HCGS/SGS cooling towers water and Delaware River microbial sampling events, including species identified, frequency of sampling, sample locations, and upstream/downstream river sampling locations outside the zone of blowdown discharge influence and heat dissipation areas (HAD). Also, make available a knowledgeable expert to discuss reported cases or incidences of waterborne

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	diseases in Salem County, New Jersey, and New Castle County, Delaware, specifically any related to the five primary recreational areas along the Delaware River within 5 miles of the proposed new plant (ER Section 5.8.1.2); and information on past swimming or surface water contact advisories/closures due to the presence of microbes of concern along the Delaware River within 5 miles of the PSEG site. Make available additional references, if available.
NRH-06	Make available a knowledgeable expert to discuss the locations of blowdown discharge points for HCGS, SGS, and the proposed new plant to the Delaware River (ER Figure 5.2.1) to aid in understanding thermal impacts and the CORMIX results (ER Section 5.2.3.1.2). Also, delineate and clarify the HDAs in relation to these discharge points.
NRH-07	Make available a knowledgeable expert to discuss the influence of surface water temperature fluxes to CORMIX results considering surface water temperatures from 1998 were used in the analyses presented in ER Section 5.2.3.1.2. Are the 1998 values bounding? How do present and future surface water temperature ranges influence the modeling and the HDAs?
NRH-08	Make available a knowledgeable expert to discuss incidence rates of worker injuries associated with operation of HCGS and SGS to assist in estimating worker injuries associated with operation of the new plant (ER Section 5.8.1). Make available references for PSEG occupational injury rates and PSEG health and safety plans.
NRH-09	Make available the sample locations (i.e., map) and tabular results (noise levels in dBA, Leq, Ldn) from the 2009 baseline noise survey (ER Section Sec. 5.8.1.3). Make a knowledgeable expert available to describe the operating conditions of HCGS and SGS during the 2009 survey.
NRH-10	Make available a knowledgeable expert to discuss outbreaks of waterborne diseases during the previous 10 years in the vicinity of the proposed and alternative sites.
NRH-11	Make available a knowledgeable expert to discuss public access to the vicinity of the thermal discharge plume.
NRH-12	Make available a knowledgeable expert to discuss the non-radiological health risks as part of the criteria used in identifying and selecting the five “candidate” alternative sites. Make available in detail the assessment of non-radiological health risks for each candidate site.
Radiological Health (RH)	
RH-01	Make available LADTAP II and GASPAR II input and output files for the proposed PSEG ESP plant.
RH-02	Make available for review annual effluent and radiological environmental monitoring reports for the past 5 years for the existing HCGS and SGS power plants. While the NRC has these reports in the ADAMS system, it would facilitate audit discussions if the applicant makes them available for review during the audit.
RH-03	Make available a copy of the Offsite Dose Calculation Manual (ODCM).
RH-04	Make available a knowledgeable expert to address any possible changes to the REMP program due to a new plant on the PSEG ESP site (e.g., frequency of readings).
RH-05	Make available process flow diagrams for liquid and gaseous radioactive waste management and effluent control systems for the new PSEG ESP plant.
RH-06	Make available the calculation package for the doses from routine gaseous and liquid effluents for the new PESG ESP showing the

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	locations of the principal release points for radioactive materials to the environment for the new, the nearest present and future locations from which an individual could obtain aquatic food and/or drinking water, the nearest present and future shoreline areas that an individual could use for recreational purposes, the transit time of each facility discharge stream containing liquid radioactive waste discharge from the point at which the stream enters an unrestricted area to the nearest present and future locations from which an individual could obtain aquatic food and/or drinking water and to the nearest present and future shoreline areas that an individual could use for recreational purposes, and the estimated stream dilution at those locations .
RH-07	Make available a list and location of the direct radiation sources within or onsite out-of-plant as solid waste (e.g., independent fuel storage).
RH-08	Make available the number and locations of construction workers who would be exposed to the radiation sources at the site and the amount of time per year that they would spend at those locations. Furthermore, an expert to discuss and explain.
RH-09	Make available an expert to discuss natural radiation doses generally applicable to the PSEG ESP site.
Accidents (ACC)	
ACC-01	Make available the calculation packages that describe how the dose consequences were estimated for design basis accidents and severe accidents, including a written description and a map of the EAB and LPZ boundaries, the method used to calculate the χ/Q values used in the DBA calculations, the meteorological data used in these calculations, the US-APWR DBA source terms for the worst 2-hour release period, information on how breathing rates were used in the calculations, details for the surface water and groundwater pathways used in the calculations, and details on how the land data in the evaluation was used, including potential changes in land use.
ACC-02	Make available a list of surface water users within 50 miles of the site (public water supplies, industrial and agricultural users).
ACC-03	Make available the input and the output files for the MACCS2 severe accident calculations (all sequences, all plants).
ACC-04	Make available a knowledgeable expert to answer questions about how the accident calculations were done.
Fuel Cycle/Rad Waste/Decommissioning (FC)	
FC-01	Make available a knowledgeable expert to discuss the new plant in the context of cumulative impacts to the fuel cycle and to the storage and disposal of radiological waste.
Transportation (TR)	
TR-01	Make available a knowledgeable expert to discuss the estimate of the heat load in a spent fuel shipping cask and to compare the result to 10 CFR 51.52 Table S-4 conditions (i.e., 250,000 Btu/hr [~73 kW]). ER Section 5.7.2.1.6 and Table 5.7-4 indirectly evaluate this condition by addressing fuel age and burn up. (ESRP 3.8)
TR-02	Make available a knowledgeable expert to discuss the estimate of the radiation dose to transport workers and to compare the result to the Table S-4 condition and discuss ER Tables 5.7-9 through 5.7-12. (ESRP 3.8)

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TR-03	Make available a knowledgeable expert to discuss the calculation of routine radiation doses to the general public-onlookers and compare the results to the Table S-4 conditions and discuss ER Tables 5.7-9 through 5.7. (ESRP 3.8)
TR-04	Make available a knowledgeable expert to discuss the calculation of routine radiation doses to the general public along the route and compare the results to Table S-4 conditions and discuss ER Tables 5.7-9 through 5.7-12. (ESRP 3.8)
TR-05	Make available a knowledgeable expert to discuss the calculation of radiological transportation accident risks, ER Table 7.4-1 and ER Table 7.4-3, and the Severity Category 7 release fraction for crud (ESRP 7.4).
TR-06	Make available a knowledgeable expert to discuss transportation routing and the routine transportation impacts and transportation accident risks for the four alternative sites (ESRP 3.8 and 7.4).
TR-07	Make available a knowledgeable expert to discuss and provide electronic copies of the RADTRAN input and output files contained in ER Appendix 7A in their native format. (ESRP 3.8 and 7.4)
TR-08	Make available a knowledgeable expert to discuss the references used to estimate the annual number of shipments for the ABWR, AP1000, USEPR, and US-APWR in ER Tables 5.7-5, 5.7-6, and 5.7-7. In addition, be prepared to discuss the comparison of spent fuel shipments for each reactor is tabulated in ER Table 5.7-6 (ESRP 3.8 and 7.4)
Need for Power (NP)	
NP-01	Make available the author of the appropriate sections to discuss the Need for Power analysis presented in the ER Chapter 8 and a knowledgeable expert to discuss the reasons for choosing New Jersey as the RSA and rational behind ER Table 8.4.1.
NP-02	ER Section 8.1 suggests that the bulk of the power produced by the proposed facility would be sold into wholesale power markets serving New Jersey. Make available the author of the appropriate sections to discuss the nature of the wholesale markets and to explain this process. Section 8.1 discusses a signaling process through which the system operator works with market forces to signal independent owners of generating capacity to build needed generating capacity. Make available the author of this section to explain this process in greater detail.
NP-03	NUREG-1555 describes a process to validate that load forecasts are systematic, comprehensive, subject to confirmation, and responsive to uncertainty. Be prepared for a systematic discussion of these criteria and reference portions of the ER that demonstrate these features.
NP-04	The forecasting process used by PJM seems to be the basis of the forecasts developed for New Jersey, but this linkage is not stated explicitly in ER Chapter 8. To the extent that the PJM forecasting process is the basis of the forecasts, the NUREG-1555 criteria should be referenced to the PJM forecasting process. Make available the author of the appropriate sections to explain the exact method for preparing the New Jersey forecasts and how they are linked to PJM forecasts.
NP-05	ER Chapter 8 recognizes the importance of energy efficiency programs and various other programs intended to shape loads, including the auctions used for this purpose. ER Chapter 8 also recognizes the New Jersey's Energy Master Plan and activities through New Jersey's Clean Energy Program. Make available the author of the appropriate sections to describe these activities and the manner in which estimates of reductions in loads due to these activities are captured in the forecasts. Also, to discuss the role of conservation and related activities in reducing loads and the influence of load reduction on the need for power. Make available the author of the appropriate sections to discuss whether and how ER Chapter 8 addresses these questions and to discuss estimates of the load reductions that have occurred.

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NP-06	The Need for Power analysis in ER Section 8.4 should draw together all relevant data. At present, it draws together the current baseload capacity, forecasted baseload capacity, and forecasted baseload demand. Make available the author of the appropriate sections to discuss data showing how other system resources (such as those discussed in NP-05) come into play. This discussion and any associated data could follow a capacity planning exercise or some other acceptable format.
NP-07	Is S-2381 a factor in the need for power analysis? Does New Jersey issue certificates of convenience and necessity for deregulated merchant power vendors? Would the potential decommissioning of Oyster Creek in 2019 influence the need for power analysis? Make available a knowledgeable expert to discuss these topics.
Alternatives (ALT)	
ALT-01	Make available for review the information used to formulate the conclusions regarding the comparison of potential impacts of alternative energy sources in ER Table 9.2-1.
ALT-02	Make available for review the sources and citations for the numerical data presented in ER Table 9.2-2 on emissions from alternative energy facilities.
ALT-03	Make available a knowledgeable expert to discuss the State of New Jersey's requirements regarding renewable portfolio standards and current plans for additions of energy sources in the region.
ALT-04	Make available a knowledgeable expert to discuss the basis that was used in the comparison of potential impacts among the alternative energy sources, including a discussion of what assumptions were used for each alternative in regard to: (1) the specific type of facility (i.e., technology) that would be constructed and operated, (2) the type of cooling (if any) that would be required, and (3) the new off-site transmission lines (if any) that would be required.
ALT-05	Make available a knowledgeable expert to discuss the details for each of the alternative energy sources evaluated in ER Section 9.2.3. The topics of interest include: (1) the types and quantities of fuel consumed on an annual basis, (2) the types and quantities of other chemicals or reagents (e.g., limestone for stack gas scrubbers) that would be consumed on an annual basis, (3) the amount of water that would be required on an annual basis, as well as the source of the water needed, (4) the postulated air emissions and how they might affect the existing air quality in the area, as well as any potential effects of those emissions on visibility, (5) the types and quantities of wastes that would be generated on an annual basis, (6) the transportation, fate, and disposition of wastes, including the basis for any calculations regarding landfill capacities, and (7) the noise that would be generated during construction and operation of the facilities.
ALT-06	Make available a knowledgeable expert to discuss and explain the numerical basis for the number of wind turbines, the total land surface area required, and the total area disturbed as described for wind farms in Section 9.2.2.1 of the ER.
ALT-07	Make available a knowledgeable expert to discuss the consideration and evaluation of energy alternatives, including combinations of wind with energy storage, biomass, and solar, all in combination with natural gas.
ALT-08	Make available for discussion any available information about the 92MW of new solar energy that is being developed in Salem County as was mentioned by a member of the public during the November 4, 2010, EIS scoping meeting.
ALT-09	Make available a knowledgeable expert to discuss and explain the basis or source of the 240MW from biomass as discussed in ER

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	Section 9.2.2.6, as well as the breakdown attributed to municipal solid wastes and urban wood residues as discussed in ER Section 9.2.2.6.2, and methane from landfills and wastewater treatment as discussed in ER Section 9.2.2.6.3.
ALT-10	Make available a knowledgeable expert to discuss in greater detail the water consumption of each of the energy alternatives evaluated in ER Section 9.2.3, including a discussion of cooling water requirements and water requirements for pollution abatement purposes.
ALT-11	Make available a knowledgeable expert to discuss the technological mix and breakdown of the contributions of wind (and solar and biomass) in combination with coal-fired or natural-gas-fired combinations of alternatives described in ER Section 9.2.3.3. That is, be prepared to discuss how much energy was assumed to be contributed by the renewable resource and how much by the fossil resource, and include a discussion of capacity factors as necessary.
ALT-12	Make available a knowledgeable expert to discuss the emission of carbon dioxide (CO_2) that would result from the combination of alternatives as evaluated in ER Section 9.2.3.3.
ALT-13	Make available a knowledgeable expert to discuss the criteria used in ER Section 9.3.1.2 to identify “candidate areas” for alternate sites. In particular, the expert should be able to explain in detail the metrics and rationale used for “proximity to designated lands” and “population density.”
ALT-14	Make available a knowledgeable expert to discuss the criteria used in ER Section 9.3.1.3 to identify and select the “potential sites” within the candidate areas for alternate sites. In particular, the expert should be able to explain in detail the metrics and rationale used for selecting the eleven potential sites.
ALT-15	Make available a knowledgeable expert to discuss the criteria used in ER Section 9.3.1.4 to identify and select the “candidate sites” from within the potential sites. In particular, the expert should be able to explain in detail the metrics and rationale used for selecting the five candidate sites.
ALT-16	Make available a knowledgeable expert to discuss the criteria used in ER Section 9.3.1.5 in the evaluation of the candidate sites. In particular, the expert should be prepared to discuss the detailed numerical scoring of the site characteristics that were used to quantify and rank the candidate sites.
ALT-17	Make available a knowledgeable expert to discuss the data sources used in the site-selection process, including results of site-specific field investigations, for each of the alternate sites.
ALT-18	For each of the four alternate sites evaluated in the ER (i.e., Site 4-1, Site 7-1, Site 7-2 and Site 7-3), make available for review the geographic coordinates of the site, maps showing the approximate location and boundaries of the site, and a theoretical facility footprint for the site.
ALT-19	Make available a knowledgeable expert to discuss the property ownership of the four alternate sites (i.e., Site 4-1, Site 7-1, Site 7-2 and Site 7-3).
ALT-20	Make available a knowledgeable expert to explain in greater detail the status and implications of PSEG’s “Deed of Conservation Restriction” for Site 7-3.
ALT-21	For <u>each</u> of the four alternative sites, make available a knowledgeable expert who can discuss all nearby existing/proposed projects

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	or activities that could potentially create cumulative impacts if a new nuclear power plant were to be constructed at that site. The discussion should include the type of project or activity, its distance from the site, its status (if it is a proposed project or activity), the time frame during which it could create cumulative impacts, and the cited reference from which this information was obtained. For each of the alternative sites, additional data will be needed on potential cumulative impacts in almost all resource categories.
ALT-22	Make available a knowledgeable expert to discuss and explain the numerical estimates of cumulative area disturbed or made unavailable for each of the four alternative sites (i.e., Site 4-1, Site 7-1, Site 7-2 and Site 7-3). In particular, make available for review the calculations that were used to determine the acreage needed at each of the sites for new roads, new rail, new transmission lines, the new switchyard, and the new transmission lines needed to connect the switchyard to the nearest substation, as well as the total acreage.
ALT-23	Make available a knowledgeable expert to discuss the details of the new barge unloading facility that would provide access to Site 7-3.
ALT-24	Make available a knowledgeable expert to discuss in greater detail the potential environmental impacts of the new barge unloading facility for Site 7-3, include a discussion of the amount of land area that would be disturbed, any impacts to wetlands, any dredging that would be required, and any permits that must be secured.
ALT-25	Make available a knowledgeable expert to discuss the potential for "water reuse" in regard to its potential for offsetting the quantities of supply water needed for a new power reactor unit(s) at the PSEG site.
ALT-26	Make available the following references as listed in ER Section 9.1.1: References called out as items 9.1-1 and 9.1-2.
ALT-27	Make available the following references as listed in ER Section 9.2.4: References called out as items 9.2-1, 9.2-3, 9.2-4, 9.2-8, 9.2-16, 9.2-19, 9.2-22, 9.2-23, 9.2-24, 9.2-25, 9.2-26, 9.2-29, 9.2-30, 9.2-31, 9.2-36, and 9.2-38.
ALT-28	Make available the following reference as listed in ER Section 9.4.4: Reference called out as item 9.4-2.
Non-Radiological Waste (NRW)	
NRW-01	To aid in preparing EIS section 4.10, "Nonradioactive Waste Impacts", make available a knowledgeable expert to discuss the environmental impacts that could result from the generation, handling, and disposal of nonradioactive waste during building activities for the proposed plant, including the waste types, destinations (on- and offsite), regulations, mitigation measures, and impacts of the waste on land, water, and air. Be prepared to discuss a factually, legally, and technically defensible estimate of the combined non-radioactive waste preconstruction and NRC-authorized construction impact significance level according to the ESRP definitions of those levels (e.g., SMALL, MODERATE, LARGE).
NRW-02	To aid in preparing EIS section 7.9, "Nonradioactive Waste", make available a knowledgeable expert to discuss the cumulative environmental impacts of nonradioactive solid, liquid, gaseous, hazardous, and mixed waste generated by the proposed plant and other past, present, and reasonably foreseeable future projects in the geographical area of interest. Be prepared to discuss a factually, legally, and technically defensible estimate of the combined cumulative non-radioactive waste impact significance level according to the ESRP-definitions of those levels.