

LASALLE ENVIRONMENTAL AUDIT NEEDS LIST

ID #	Information Needed	Reviewer
Alternatives		
ALT-1	Provide the available acreage and locations on the LaSalle County Station (LSCS) site that would be suitable for alternative energy generation. Please identify possible locations during the site tour.	Hoffman
ALT-2	Provide the following primary reference documentation, cited in Section 7.2.2.2: "Tetra Tech 2013b. Air Emissions and Solid Waste from Coal- and Gas-Fired Alternatives for LaSalle Units 1 and 2. License Renewal Chapter 7 Energy Alternatives. Exelon. August 2013".	Hoffman
Microbiological Hazard		
MH-1	Section 4.5.2.3 of the ER states that water treatment additives are utilized for scale inhibition, silt dispersion, corrosion inhibition, and micro- and macro-biological control. Please provide a summary of Exelon's chlorination procedures for the circulating water and service water systems that includes the chlorine compounds used to treat each system as well as the concentrations and frequency of injection.	Moser
MH-2	Please docket the following ER references: a. Exelon Nuclear. 2009. Evaluation 2009-8466, Rev. 0, Final Issue, Task Report 47 - Environmental Impact Non-Safety Related. LaSalle County Generation Station Units 1 & 2. September 2009. b. Exelon Nuclear. 2011. LaSalle County Nuclear Station NPDES-DMR for January 2011. Marseilles, IL. February 25, 2011. c. Exelon Nuclear. 2012. LaSalle County Nuclear Station NPDES-DMR for February 2012. Marseilles, IL. March 13, 2012. d. Illinois Department of Public Health. 2014. Marshall Email: to Ranek. RE: LaSalle County Station Units 1 and 2 -- Consultation about thermophilic organisms. February 19, 2014. e. Illinois Environmental Protection Agency. 2014. Good Email: to Ranek. RE: LaSalle County Station Units 1 and 2 -- Consultation about thermophilic organisms. February 28, 2014.	Moser
Aquatic		
AQ-1	Section 3.7.5.1 of the ER (page 3-59) states that since 2001, LSCS has had four reportable fish kills (in 2001, 2005, 2009 and 2010) in the cooling pond, and one small, unreported (approximately 100 shad) event in 2002. The NRC staff is aware of the fish kill events that occurred in 2001 (ML012330070, ML021330421), 2005 (Event Report Number: 41805), 2009 (ML092040381) and 2010 (ML102371289, ML12285A200). a. Provide the date of the unreported fish kill in 2002. In addition, provide any other applicable reports, letters, or studies that describe fish kills in the cooling pond from 2001 through present. b. Provide any temperature monitoring data of the cooling pond during each fish kill (if not described in the above reports or studies), as well as a summary of any temperature monitoring data in the cooling pond since 2001. c. Has Exelon implemented any mitigation measures to reduce the number of fish kills in the cooling pond, other than the Extreme Heat Implementation Plan? If so, describe such mitigation.	Moser

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AQ-2	<p>Section 3.7.5.1 of the ER (page 3-59) states that Exelon Generation and Illinois Department of Natural Resources (IDNR) meet annually to discuss activities within the cooling pond at LSCS. The ER further states that during one meeting, participants determined that smallmouth bass in the LSCS cooling pond do not appear to be thermally stressed, and meeting minutes document that smallmouth bass were in good condition (body weight relative to length) in 2011 and 2012 despite unusually high water temperatures in the cooling pond.</p> <p>a. Please provide a copy of the meeting minutes that discuss this topic and clarify which staff concluded that smallmouth bass in the LSCS do not appear to be thermally stressed.</p> <p>b. Please describe the water temperature in the cooling pond during 2011 and 2012, when the temperatures were unusually high.</p>	Moser
AQ-3	<p>Section 3.7.1.7 of the ER describes some State-listed species that could occur at or near LCSC. Discuss whether aquatic State-listed have ever been observed on site or within 6 miles of the river screen house or could potentially occur on site or within 6 miles of the river screen house. Further, describe whether LSCS's operation has ever been known to impinge or entrain a State-listed species. Please consider all aquatic species that IDNR lists as potentially occurring within La Salle County, which include the following:</p> <ul style="list-style-type: none"> • Alasmidonta viridis, slippershell • Elliptio dilatata, spike • Fundulus diaphanous, banded killifish • Moxostoma carinatum, river redhorse • Moxostoma valenciennesi, greater redhorse • Notropis heterolepis, blacknose shiner • Notropis texanus, weed shiner 	Moser
AQ-4	<p>Section 4.6 of the ER considers the effects of impingement and entrainment on aquatic biota in the Illinois River.</p> <p>a. Section 4.6.3.1 The ER (page 4-32) states that in 1979, the Illinois Environmental Protection Agency issued LSCS an National Pollutant Discharge Elimination System (NPDES) permit with a condition requiring impingement and entrainment monitoring and preparation of a Clean Water Act, Section 316(b) demonstration report. Provide reports, summaries, or documents that were developed or used to the support the 316(b) demonstration report. In addition, provide a copy of the predictive 316(b) demonstration study completed in 1976.</p> <p>b. In its analysis of entrainment and impingement, the NRC will consider the effects of entrainment and impingement that occur at both the river screen house and the lake screen house. To support this analysis, please provide any reports, summaries, or documents that describe impingement and entrainment rates at the river screen house and the lake screen house since operations began, or any other reports, summaries, or documents that summarize preoperational aquatic biological monitoring data and operational aquatic biology monitoring data that were not cited in the ER.</p>	Moser

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AQ-5	<p>Section 4.6 of the ER considers the effects of heat shock on aquatic biota in the Illinois River.</p> <p>a. Section 4.6.3.2 of the ER (page 4-34) states that the in its Final Environmental Statement (FES) for LSCS's operation, NRC staff predicted that under worst-case conditions (highest blowdown temperature) the thermal plume area (defined by the 3°C/5°F isotherm) would be 2,500 m² (0.6 ac) and would encompass approximately 9 percent of the river's cross section. Describe any field studies or modeling studies that have occurred during operations that describe the temperature and size of the thermal plume in the Illinois River.</p> <p>b. In its analysis, the NRC will consider the effects of heat shock on aquatic biota in both the Illinois River and the cooling pond. To support this analysis, please provide any thermal studies that have been conducted on the cooling pond.</p>	Moser
AQ-6	<p>Please docket the following ER references:</p> <p>a. Fritts, M. W. 2013. RE. Request: Illinois River Reports. Illinois River Biological Station and Illinois Natural History Survey. Havana, Illinois. June 24, 2013.</p> <p>b. EA Engineering, Science, and Technology, Inc. 2014. LaSalle County Station 2013 Fish and Benthos Monitoring and Historical Fish and Benthos Comparisons. Deerfield, IL. March 2014.</p> <p>c. HDR Engineering. 2010. Zebra Mussel Monitoring Program at LaSalle Nuclear Station, 2009. February 2010.</p> <p>d. HDR Engineering. 2011. Zebra Mussel Monitoring Program at LaSalle Nuclear Station, 2010. February 2011.</p> <p>e. HDR Engineering. 2012. Zebra Mussel Monitoring Program at LaSalle Nuclear Station, 2011.</p> <p>f. HDR Engineering. 2013. Zebra Mussel Monitoring Program at LaSalle Nuclear Station, 2012.</p> <p>g. HDR Engineering. 2014. Zebra Mussel Monitoring Program at LaSalle Nuclear Station, 2013.</p>	Moser
Historic and Cultural Resources		
HC-1	<p>Provide a map detailing the level of previous and existing ground disturbance at the plant site, including documentation on how this level of disturbance was determined.</p>	Chazell
HC-2	<p>Provide U.S Geological Survey (USGS) 7.5 minute topographic quadrangle maps at 1:24,000 scale that show the boundaries of the LSCS property, the plant site, and existing transmission lines up to the first substation. (I will need to take these hard copy maps with me for the file search at the Illinois SHPO; I am not referring to GIS maps with underlying topographic data – the actual USGS-named quad sheets are needed at 1:24,000 scale.)</p>	Chazell
HC-3	<p>Provide vegetation/land-use maps of the LSCS property, the plant site, and associated transmission lines. What percentage of land within the LSCS property has been formally surveyed?</p>	Chazell
HC-4	<p>Provide a breakdown of the percentage of types of land use (i.e., farm land, industrial, forested, water, etc.) within LSCS property. What percentage of land within the LSCS property is undisturbed?</p>	Chazell

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HC-5	Provide map(s) of site locations and previously surveyed areas within the entire LSCS property (plant site and plant property) and along existing transmission lines, up to the first substation, which will be needed during the site visit. These maps will not be docketed, as they are considered sensitive information. NRC will be independently collecting and verifying the location data as available at the Illinois SHPO, but that will likely be after the site visit is completed.	Chazell
HC-6	Provide copies of any archaeological surveys performed on LSCS property and referenced in the ER. These surveys will not be docketed, as they are considered sensitive information.	Chazell
HC-7	Verify if geomorphological work was conducted for the archaeological surveys to determine the depth of deposits and how deep archaeological remains may be present.	Chazell
HC-8	Provide a copy of the applicant's administrative controls in place to protect cultural resources, as referenced in Section 4.7 of the ER, and any other environmental review procedures for land-disturbing activities (e.g., trenching, clearing, digging) on or associated with LSCS property as described in the ER. Describe how inadvertent discoveries are considered by LSCS during normal operations.	Chazell
HC-9	Provide a description of how a proposed activity on the LSCS site is evaluated for cultural resource impacts.	Chazell
HC-10	Provide information on management around less-developed areas of the plant site, especially near known historic and cultural resources or near unsurveyed areas.	Chazell
HC-11	Provide documentation of construction projects that have occurred on the property since the construction of LSCS to determine how historic and cultural resources were considered. Any documentation demonstrating compliance with existing environmental procedures would be useful. What materials are used by the LSCS staff to determine whether the SHPO should be consulted?	Chazell
HC-12	Provide any information on cultural resource training required for LSCS staff.	Chazell
HC-13	Provide copies of all letters and communications to and from the Illinois SHPO specific to determining the National Register of Historic Places (NRHP)-eligibility of all cultural resources identified to date within the LSCS property, including the plant site and along existing transmission lines, up to the first substation.	Chazell
HC-14	Provide any information on procedures for consulting/interacting with Federally recognized Indian tribes that have ancestral or historical ties to the project area and surrounding lands.	Chazell
HC-15	Provide consultation letters and other communication documents indicating correspondence to and from the Illinois SHPO and to and from Federally recognized Indian tribes that have ancestral or historical ties to the project area and surrounding lands that you have received or sent since submittal of the ER or not included in the ER. Additionally, has any contact been made with local historical societies or other local organizations with an interest in historic preservation?	Chazell

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HC-Mtg1	Provide knowledgeable applicant staff familiar with the cultural resources within the LSCS property to review cultural resource management procedures to determine how they manage resources, avoid impacting historic and cultural resources, and deal with inadvertent discovery of historic and cultural resources and human remains. Is any cultural resource training required for staff?	Chazell
HC-Mtg2	Provide knowledgeable applicant staff and transmission line maintenance staff to discuss any procedures in place regarding protection of historic and cultural resources along existing transmission line corridors.	Chazell
HC-Tour1	General site tour	Chazell
HC-Tour2	Transmission line tour up to the first substation (including any archaeological sites recorded along the lines)	Chazell
HC-Tour3	Tour of the ROW for the makeup and blowdown pipelines from the cooling lake to the Illinois River	Chazell
HC-Tour4	Tour of archaeological sites and architectural resources within LSCS property, preferably led by an archaeologist or staff familiar with location of cultural resources within the LSCS property	Chazell
Human Health (Non-Radiological)		
NR-1	Provide NPDES monthly discharge monitoring reports for the past 5 years.	Chazell
NR-2	Provide a copy of the plant procedure that workers use for identifying industrial hazards prior to performance of jobs. This procedure is discussed in Section 3.10.1 of the ER.	Chazell
NR-3	Provide any information relative to the processes used by the plant to control electrical shock hazards as discussed in ER Section 3.10.2.	Chazell
NR-Mtg	<p><u>Discussion with knowledgeable plant personnel</u></p> <p>Note: If the following areas are discussed on the tour, a meeting for these areas may not be needed:</p> <p>Radiation Protection Program: Overview of the program with emphasis on the as low as is reasonably achievable (ALARA) program to control worker radiation exposure (annual dose goals and status). Are there any proposed changes or upgrades to the program being considered during the license renewal term?</p> <p>Radioactive solid waste: Review how the plant plans to handle low-level radioactive waste (Class A, B, and C, mixed waste, and spent nuclear fuel) during the license renewal term (onsite storage, potential expansion of storage facilities, and disposal options). Are there any proposed changes or upgrades to the program being considered during the license renewal term?</p> <p>Radioactive gaseous and liquids effluents: Review how the plant processes radioactive effluents to maintain radiation doses to the public to levels that are ALARA. Are there any proposed changes or upgrades to the program being considered during the license renewal term?</p>	Rautzen

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NR-Tour	<p>General tour of the plant site and buildings.</p> <p>Tour radiation protection/access control area to observe the following:</p> <ul style="list-style-type: none"> -Low-level radioactive waste storage and processing areas, including mixed waste. -Radiological environmental monitoring program (REMP) – a small sample of monitoring stations (e.g., air monitoring stations, thermoluminescence dosimeter (TLD) stations, drinking water, milk, and vegetation, including monitoring stations co-located with State monitoring stations). 	Rautzen
Land Use and Visual Resources		
LU-1	<p>The ER (Section 3.2, p. 3-5 and 3-6) states that the LSCS site is 1,568 hectares (ha; 3,875 acres (ac)) in size. Of that area, the cooling pond occupies 833 ha (2,058 ac); industrial or developed areas account for 60 ha (150 ac); undeveloped areas account for 101 ha (250 ac); and the LaSalle Fish Hatchery occupies 18 ha (45 ac). Describe the land use(s) for the remaining 556 ha (1,372) ac.</p>	Grange
LU-2	<p>The NRC’s supplemental environmental impact statement (SEIS) for LSCS license renewal will include a description of fuel at the LSCS site that mirrors Section 3.1.6.2 in the NRC’s 2013 GEIS (ML13107A023). To facilitate the staff’s preparation of this section, provide the following information:</p> <ul style="list-style-type: none"> a. How much nuclear fuel does each LSCS unit contain in pounds or metric tons? The approximate or average weight is sufficient. b. On average, what percentage of reactor fuel does Exelon replace during each outage? c. Describe the use and storage capacity of all onsite fuel storage tanks, including diesel, gasoline, and natural gas. d. How does LSCS power its heating, ventilating, and air conditioning systems? e. Does LSCS have an onsite waste oil incinerator(s)? If so, please describe the incinerator(s). 	Grange
LU-3	<p>Section 3.1 (p. 3-2) of the ER states the following: “The Chicago, Rock Island & Pacific Railroad, in this area parallel to and slightly north of the Illinois River, is the closest railroad line. A 10 km (6 mi) rail spur connects LSCS to the Atchison, Topeka, and Santa Fe Railroad south of the site (ComEd 1977).”</p> <ul style="list-style-type: none"> a. Are these railways operational today? b. Does the onsite rail spur remain active? c. If these railways are not active, what are the closest operational railways to the LSCS site? 	Grange
LU-4	<p>Does Exelon maintain a barge slip for LSCS or otherwise receive or ship equipment for LSCS by barge?</p>	Grange

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LU-5	<p>Regarding the transmission lines and onsite switchyard, please provide the following information.</p> <p>a. Who owns and operates the onsite switchyards?</p> <p>b. The Final Environmental Statement for Operation of LSCS (FES-O; ML14353A388) states that of the four 345-kV lines that connect to the onsite switchyard, two lines connect to the Plano substation and two lines connect to the East Frankfort substation. However, the ER (Section 2.2.6, p. 2-13) states that two lines connect to Braidwood Station, and the East Frankfort substation is not mentioned. Please clarify these seemingly contradictory descriptions.</p> <p>c. The FES-O describes the 138-kilovolt line connections to Mazon, Illinois and Streator, Illinois as “temporary.” Do these lines remain active?</p> <p>d. While the NRC staff understands that Exelon considers the transmission lines connected to the LSCS switchyard to not be in-scope for license renewal (as stated in Section 2.2.6, p. 2-13 of the ER), the staff assumes that ties exist that connect the turbine buildings to the switchyard and that these ties would be in-scope for license renewal. Please describe any transmission lines that connect the nuclear power plant to the substation where electricity is fed into the regional power distribution system. Please also describe any transmission lines that supply power to the nuclear plant from the grid in accordance with Footnote 4 of Table B-1 of 10 CFR Part 51, Subpart A.</p>	Grange
LU-6	<p>Clarify whether the ER’s offsite land use information (Section 3.2, p.3-5) is based on the 2006 or the 2011 Multi-Resolution Land Characteristics Consortium (MRLC) National Land Cover Database. If this section is based on 2006 data, provide any applicable updates to the section resulting from the 2011 data.</p>	Grange
Meteorology, Air Quality and Noise		
M&A-1	<p>Provide the following meteorological information from the data recorded at LSCS meteorological facility. The meteorological data should include the most recent 5 years for which data is available.</p> <p>a. mean monthly and annual temperatures;</p> <p>b. mean monthly precipitation and annual precipitation; and</p> <p>c. Provide seasonal and annual summary wind statistics in the form of wind direction, wind roses, annual average wind speed and peak wind gust.</p>	Martinez
M&A-2	<p>The ER identifies that LSCS is subject to the emission standards for hazardous air pollutants for reciprocating internal combustion engines, 40 CFR Part 63, Subpart ZZZZ. Please clarify if the gasoline dispensing facility and fuel storage tank are subject to National Emission Standards for Hazardous Air Pollutants: Gasoline Dispensing Facilities (40 CFR 63, Subpart CCCCC). If available, please provide annual hazardous air pollutants (HAP) emissions from LSCS permitted emission sources.</p>	Martinez
M&A-3	<p>Provide supporting calculations (e.g., operating hours per year, fuel consumption and rates, etc. as applicable for each source) for the greenhouse gas (GHG) emissions presented in Table 3.3-2 of the ER.</p>	Martinez

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M&A-4	Are there expected upgrade/replacement activities for equipment/operation that could increase or decrease air emissions over the license renewal period?	Martinez
M&A-5	Describe the compliance history associated with LSCS Federally Enforceable State Operating Permit (FESOP) permit No. 75040086. Provide the five most recent annual emission reports submitted to the IEPA associated with LSCS FESOP permit No. 75040086. Has LSCS received any Notice of Violations (NOVs) from the Illinois Environmental Protection Agency (IEPA) regarding the FESOP? If so, provide copies of such NOVs.	Martinez
M&A-6	Provide a copy of the FESOP permit renewal application dated July 15, 2005, referenced in the ER. Has Exelon received any correspondence from the IEPA regarding the FESOP permit renewal application? If so, please provide copies of such correspondence.	Martinez
M&A-7	Section 4.2 of the ER states that “[a]ir quality effects of transmission lines were not evaluated because, as is explained in Section 2.2.6 of the ER, no LSCS transmission lines are within the scope of the LSCS license renewal environmental review.” Section 2.2.6 of the ER discusses that the offsite transmission lines are not in scope in accordance with footnote 4 of Table B-1. However, Section 2.2.6 does not identify the in-scope transmission lines, which as defined in footnote 4 of Table B-1 are “transmission lines that connect the nuclear power plant to the substation where electricity is fed into the regional power distribution.” Section 2.2.6 of the ER identifies electrical connections between the main plant and the LSCS switchyard. Therefore, the Category 1 issue, “Air Quality effects of transmission lines” is applicable to LSCS. Provide an evaluation of any new and significant information that pertains to the Category 1 issue, “Air Quality effects of transmission lines” for those in-scope transmission lines that connect the nuclear power plant to the on-site LSCS switchyard.	Martinez
M&A-8	Provide the following ER reference: (IEPA 2000) Illinois Environmental Protection Agency. 2000. Federally Enforceable State Operating Permit for LaSalle County Generating Station No. 75040086. December 11, 2000.	Martinez
M&A-9	The ER provided GHG emission inventory for the year 2013. Does Exelon have a GHG inventory for prior years? If so, please provide this information for the most recent 5 years.	Martinez
M&A-10	Describe the LSCS off-site noise environment and primary noise sources in the vicinity of LSCS.	Martinez
M&A-11	The ER states that Illinois does not have regulations or guidelines for environmental noise. However, Illinois has a noise regulation with allowable octave band sound levels according to emitting and receiving land-use classification and time of day (IAC, Title 35: Environmental Protection, Subtitle H: Noise). Please clarify if LSCS is subject to Illinois' noise regulation and if LSCS is in accordance with these regulations.	Martinez

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M&A-Mtg	Meetings requested: Provide a knowledgeable individual to discuss the air quality and noise portions of the ER and who can discuss the following aspects of facility operations: a. Sources of air pollutants operating at LSCS. b. Air permits and emission inventories	Martinez
M&A-Tour	Tours requested: a. General Site Tour b. Major air emission and noise sources c. Nearby noise sensitive receptors	Martinez
Socioeconomics		
SE-1	Provide updated permanent workforce data, preferably a residential distribution of permanent workforce by county in Table format.	Rikhoff
SE-2	Provide updated property tax information, similar to the data provided in Tables 3.9-2 and 3.9-3 of the ER. Include data for 2013 and 2014, if available.	Rikhoff
SE-3	The latest settlement agreement was signed in July 2013 and covers the next 7 tax years starting with the 2013 tax year. What is the expectation for future tax years beyond the next 7 years during the license renewal term? Please provide any relevant information.	Rikhoff
SE-4	In addition to property tax payment information presented in Section 3.9 of the ER, describe any other major annual support payments (e.g., emergency preparedness fees), one-time payments, and other forms of non-tax compensation (if any) provided to local organizations, communities, and jurisdictions (e.g., county, municipality, townships, villages, incorporated places, and school districts) on behalf of LSCS.	Rikhoff
SE-5	Provide information about any anticipated changes in state and local tax laws, rates, and assessed property value or any other recent or anticipated tax payment adjustments that could result in notable future increases or decreases in property taxes or other payments.	Rikhoff
Special Status Species		
Spec-1	Provide any information on potential or suitable habitat for the Indiana bat or northern long-eared bat that may occur on the site, particularly summer roosting habitat. If any such habitat exists, please include that habitat as part of the ecology tour.	Logan
Terrestrial		
T-1	List and describe all terrestrial wildlife or habitat surveys that have been completed on the LSCS site, including preoperational studies. Include ongoing monitoring associated with LSCS's "Wildlife at Work" program, if any.	Grange

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T-2	Regarding the LSCS “Wildlife at Work” program, please provide the following information. a. When did Exelon first receive Wildlife Habitat Council certification for its “Wildlife at Work” program? b. Does Exelon intend to maintain Wildlife Habitat Council certification during the proposed license renewal term? c. Provide the following ER reference: (Exelon Generation 2013b) Exelon Generation. 2013. LaSalle County Generating Station Wildlife Management Plan.	Grange
T-3	The correspondence between Exelon and the IDNR in Appendix D of the ER indicates that the Marseilles Hill Prairie Illinois Natural Areas Inventory (INAI) is in the vicinity of the LSCS site. Where is this INAI site in relation to the LSCS site?	Grange
T-4	Does Exelon maintain any Clean Water Act Section 404 permits for the discharge of dredge or fill material into wetlands? Does Exelon anticipate applying for any 404 permits during the proposed license renewal period?	Grange
T-5	Provide copies of Exelon’s landscape maintenance procedures for the LSCS site.	Grange
T-6	Describe any site procedures that Exelon maintains for assessing and mitigating the environmental effects of new ground-disturbing activities or other new site activities. Provide copies of such procedures, as applicable.	Grange
T-7	Following a review of the past 10 years of operation (2004-2014), the NRC staff did not identify any non-routine reports of unusual or important environmental events submitted to the NRC in accordance with Appendix B, Section 5.4.2 of the LSCS Current Facility Operating Licenses (ML052990324 and ML052990387). Confirm that no such reports have been submitted to the NRC during this time period.	Grange
T-8	Provide the terrestrial resource sections (including any applicable tables, figures, and appendices) of following ER reference: (ComEd 1977) Commonwealth Edison Company. 1977. LaSalle County Station Environmental Report Operating License Stage. Volume 1. May 10, 1977.	Grange
Waste Management & Pollution Prevention		
WM-NR-1	Provide a list of waste haulers and offsite treatment, storage, and disposal facilities used to disposition hazardous and mixed waste.	Chazell
WM-NR-2	Provide a list of waste haulers and offsite treatment, storage, and disposal facilities used to disposition non-hazardous waste.	Chazell
WM-NR-3	Provide a copy of Exelon Generation procedures for managing universal wastes and other recyclables as discussed in Section 2.2.8 of the ER.	Chazell

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WM-NR-4	Provide a map showing the location of all of the Resource Conservation and Recovery Act (RCRA) 90-day collection points and copies of applicable state or Federal RCRA audits for the last 5 years.	Chazell
WM-NR-5	Provide copies of the following ER references for the NRC staff Review: (Exelon Generation 2012d) Exelon Generation. 2012. LaSalle Spill Prevention Control and Countermeasures. Revision 16. June 2012; and, (Exelon Nuclear 2009a) Exelon Nuclear. 2009. Document Based Instruction Guide: LaSalle Station Sewage Treatment Lagoon System TQ-AA-223-F070, Revision 1.	Chazell
WM-NR-Mtg	Please arrange a breakout session with waste management personnel to discuss processes and procedures.	Chazell
WM-NR-Tour	Please arrange a site tour of interim storage areas and RCRA 90-day collection points.	Chazell
Groundwater		
GW-1	Tours requested: a. The river intake structures b. Intake and discharge pipelines between the river and the plant c. The perimeter of the cooling pond d. The area of groundwater contamination (wells MW-LS104s, TW-LS-116S, TW-LS-118S, TW-LS-119S, TW-LS-120S, & RW-LS-100S)	Ford
GW-2	Review La Salle Fleetwide Hydrologic Investigation Report for 2006 and later years (2012 etc.). We would like to review the following assessment and any others that have been prepared. (CRA 2006) Conestoga-Rovers & Associates. 2006. Hydrogeologic Investigation Report - Fleetwide Assessment, LaSalle Generating Station, Marseilles, IL. Revision 1. Prepared for Exelon Generation Company. LLC. September 2006.	Ford
GW-3	Provide the following reference: (Exelon 2011b) Exelon Corporation. 2011. LaSalle U1 CY Tank Leak - 10CFR50 75(g) entry June 2010. May 17, 2011.	Ford
GW-4	Provide the following reference: (Exelon Generation 2012d) Exelon Generation. 2012. LaSalle Spill Prevention Control and Countermeasures. Revision 16. June 2012.	Ford
GW-5	Provide the following reference: (Exelon Generation 2005) Exelon Generation. 2005. 2004 Annual Environmental Operating Report - LaSalle County Station. April 2005.	Ford
Surface Water		
SW-1	Please provide Illinois Water Inventory Program reports and associated transmittal correspondence (surface water and groundwater portions) for years 2010 through 2014 and 2015 year to date.	Folk/Ford

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SW-2	Provide a diagram(s) clearly illustrating the configuration of the river makeup intake "flume" channeled into the bottom of the river and "funnel" as referenced in the ER. Note: as cited in Section 3.2.2.2 of the 1978 Final Environmental Statement (FES), Figures 3.4-4 and 3.4-5 from the 1977 Operating License Stage ER may provide the necessary illustration (if it is consistent with the as built configuration). In addition, describe the space between bar grills.	Folk/Moser
SW-3	ER Section 4.6.3.1 (p. 4-31) states that in its FES for LSCS operation, NRC staff predicted that the velocity at the face of the travelling screens in the river screen house is 0.2 m/sec (0.5 ft/sec) during one pump operation and 0.3 m/sec (0.9 ft/sec) during "occasional" operation. Describe any field studies or modeling studies that have occurred during operations that describe the flow through velocity at the traveling screens at the river screen house and at the lake screen house.	Folk/Moser
SW-4	Please provide the LSCS Storm Water Pollution Prevention Plan (current revision).	Folk
SW-5	As referenced in ER Section 2.2.3, please clarify how often during the year, on average, more than one river makeup pump needs to be operated to supply the cooling pond. Please indicate in what months two-pump operation occurs and for how long. If possible, please provide information for the last 5 years of pump operations.	Folk
SW-6	As referenced in ER Section 2.2.3 relative to the circulating water pumps, please clarify and provide the rated capacity of the six circulating water pumps located in the lake screen house.	Folk
SW-7	As referenced in ER Section 2.2.3 relative to the screen backwash systems for the lake screen house and river screen house, respectively, please clarify and briefly describe whether the backwash systems actuate automatically at a set frequency and/or via differential pressure preset, or if operator intervention is required to activate the backwash systems.	Folk/Moser
SW-8	Please provide a copy of LSCS Extreme Heat Implementation Plan.	Folk/Moser
SW-9	Please provide copies of NPDES Discharge Monitoring Reports for the last 2 years (2013-2014), inclusive of 2015 year to date. Also include the Discharge Monitoring Reports (DMRs) for 2010.	Folk/Moser
SW-10	Please identify when the most recent blowdown pipeline and intake pipeline breaks have occurred, respectively. For the most recent blowdown line break, summarize the environmental effects of the break (i.e., volume of effluent released, area affected, results of any analyses conducted of the release); the impact on plant operations if any, and corrective action taken. Also, please provide a copy of the release report/correspondence associated with this break submitted to the IEPA.	Folk/Ford
SW-11	If available, such as from the most recent NPDES permit renewal application, provide a water balance/ flow diagram (showing flow rates) for LSCS.	Folk
SW-12	Provide a map of NPDES permitted outfall locations.	Folk

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SW-13	Please provide copies of any NOVs, nonconformance notifications, or related infractions received from regulatory agencies associated with NPDES permitted discharges, sanitary sewage systems, groundwater or soil contamination, including spills, leaks, and other inadvertent releases of fuel solvents, chemicals, or radionuclides (covering the past 5 years inclusive of 2014). Include correspondence of self-reported violations to responsible agencies.	Folk
SW-14	Identify the date when maintenance dredging was last performed at the river screen house and identify the volume of spoils removed and where they were disposed. Indicate if any chemical analysis was performed on the spoils and provide a summary of the results. Provide a copy of any activity report(s) submitted to regulatory agencies associated with the dredging event, if applicable.	Folk/Moser
SW-15	Provide for review copies of Clean Water Act (CWA) Section 404 permits, and state equivalent permits, including the following: Department of Army Permit CEMVR-OD-P-2006-185.	Folk/Moser
SW-16	Provide a description of any planned operational and maintenance activities (or projects) anticipated to be undertaken during the license renewal term (as possible, identify expected timeframe, location(s) affected, acres disturbed, and activity/project duration).	General
SW-Tour	Tour: The hydrology/aquatic ecology team would like a general tour of the plant site and vicinity including associated intake structures and conveyances (i.e., river screen house, lake screen house, river discharge structure, intake canal, discharge canal, cooling pond perimeter, cooling pond spillway, blowdown channel/canal, blowdown/intake pipeline routing ROW); significant streams and other surface water/effluent management features (i.e., north and south stormwater management ponds, sewage treatment lagoons, and the fish hatchery); onsite groundwater wells; NPDES outfall locations; and the Marseilles Lock and Dam.	Folk/Moser
SW - Mtg	Provide for a meeting with the applicant's subject matter expert(s) and/or the contractor(s) responsible for writing the surface water hydrology and quality portions of the ER to discuss the plant's intake and circulating water systems, effluent discharges, and affected water resources.	Folk/Moser
Cumulative		
CUM-1	Provide the name, description, location, and status of any additional past, present, or reasonably foreseeable projects or actions identified since the applicant's ER was prepared.	Hoffman