

Appendix A: Cross Reference with Application Guide³⁰

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VIII. Contents of Application		
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B. A statement of the purpose for which the application is being made.	2. Purpose of the Petition	12
C. A statement describing the statutory authority for such application.	3. Statutory Authority	13
D. The exact legal name of each person seeking the authorization or relief and the address or principal place of business of each such person. If any applicant is a corporation, trust association, or other organized group, it shall also give the state under the laws of which it was created or organized.	4. Legal Name and Address of Petitioner	14
E. The name, title, address, and telephone number of the attorney or other person to whom correspondence or communications in regard to the application are to be addressed. Notice, orders, and other papers may be served upon the person so named, and such service shall be deemed to be service to the applicant.	4. Legal Name and Address of Petitioner	14
F. Statement and full explanation of why the proposed facility is necessary for the reliability of the electric power supply of the state or for a competitive market for electricity.	5. Statement of Public Need and Project Benefits	14
G. Information on the extent to which the proposed facility has been identified in, and is consistent with life-cycle cost analysis required by General Statutes § 16-50r and other advance planning that has been carried out, including an explanation for any failure of the facility to conform with such information.	15 Loads and Resources	95

³⁰ Connecticut Siting Council Electricity Generating Facility Application Guidelines, June 2007.

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H. Estimate of the overall reliability of the facility based on: 1. Historic and expected availability of all facility components; 2. Availability of off-site resources such as water and fuel supply with resource plans documenting supply and capacity; 3. All mechanisms for contingency in the event of fuel curtailment, water curtailment, facility flame-out, and electrical component failure; and 4. The historic and expected availability of all necessary electric and fuel transmission infrastructure.	9.1 Reliability	44
I. Description of the proposed facility, including:	6. Description of the Proposed Facility	17
1. Technical Specifications:		6.2
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b. Fuel type and supply;	6.3 Fuel Type and Supply	21
c. Combustion technology;	6.4 Combustion Technology	26
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f. Air emissions;	11.1 Air Quality	65
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i. Provisions for emergency operations and shutdowns;	9.2.2 Provisions for Emergency Operations and Shutdowns	51
j. Fire suppression technology;	9.2.3 Fire Suppression Technology	52
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l. Proximity to municipal fire stations;	9.2.5 Proximity to Municipal Fire Stations	54
m. Protective gear and control systems;	9.2.6 Protective Gear and Control Systems	55
n. Traffic flow and potential evacuation routes;	11.2 Traffic Impact Analysis	75
o. Traffic safety and fuel spill risk assessment for access routes to the site;	11.2 Traffic Impact Analysis	75
p. Provisions for leak detection of fuel and chemicals from storage areas;	9.2.7 Hazardous Materials Management	56
q. Hazardous materials management and fuel spill prevention and control.	9.2.7 Hazardous Materials Management	56
2. A demonstration of how the proposed facility would comply with Prevention of Significant Deterioration and Non-Attainment New Source Review requirements, identification of potential maximum emissions from proposed and alternative fuel combustion, and a summary of air pollution control technologies.	11.1.1 Compliance with Air Quality Regulations and Standards	68
	6.5.1 Pollution Control Technology	28

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3. Alternative technologies, including: a. Efficiency comparisons; and b. Environmental comparisons.	8 Alternatives Analysis	42
4. An emergency management/evacuation plan.	9.2.1 Emergency Management, Safety, & Evacuation Planning	48
5. Safety and reliability information, including: a. Provisions for emergency operations and shutdowns; and b. Fire suppression technology.	9.2.2 Provisions for Emergency Operations and Shutdowns	51
	9.2.3 Fire Suppression Technology	52
6. A Federal Aviation Administration determination for obstruction or hazard to air navigation.	7 FAA Determination	40
7. Itemized estimated costs, including: a. Plant and fuel; b. Generating cost per kilowatt hour, both at the plant and related transmission line interconnection; c. Comparative costs of alternatives considered; and d. Life-cycle costs.	6.9 Estimated Project Costs	38
8. Information regarding the forecast of available fuel and backup fuel supply proposed for the facility, the State of Connecticut, New England, and the United States.	6.3.1 Forecast of Available Fuel and Backup Supply	23
9. The location of existing and proposed pipelines or other infrastructure necessary to provide fuel and water to the proposed project including any upgrades necessary for the delivery of fuel and water to the facility during operation.	6.3.2 Natural Gas Usage and Infrastructure	25
	6.6.3 Water Supply Infrastructure	36
10. The source of fuel, water, and interconnections necessary for facility operation, the location of all infrastructure and pipelines with a map, the service area of the proposed infrastructure, other large users that may compete for the supply of fuel and water to the proposed facility, and under what circumstances fuel and water could be curtailed to the facility.	6.3.2 Natural Gas Usage and Infrastructure	25
	6.6.3 Water Supply Infrastructure	36
11. Details of alternative fuel supply including fuel compatibility, schedule and mechanism necessary for fuel switching, equipment requirements, and analysis of alternatives with a comparison of facility reliability with and without alternative fuel supplies.	6.3 Fuel Type and Supply	21
12. A comparison, with a narrative and tabular reporting, of wet and dry cooling technologies, non-contact cooling, and use of gray water if applicable, including the estimated capital and operating costs, effects on air emissions, water use, water discharge, water recycling, effects on water resources and water diversions, noise, and spatial requirements of each technology under all operations scenarios.	6.6 Cooling System	33
13. An explanation of consistency with regional water supply and watershed protection plans and permit application or executed permit, if applicable, for the use of diverted water for cooling and other facility uses.	6.6.1 Water Supply	35
14. A storm water management plan with modeling to predict the quality and quantity of anticipated runoff and discharge.	11.7 Storm Water Management	83

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15. The construction type of the transmission interconnection (overhead, underground, single circuit, double circuit) and the existing and expected transmission line loadings, substation interconnection plan, and the anticipated range of dispatch based on transmission grid constraints. Also, provide a final copy of, or a status report on, the independent system operator transmission grid interconnection study.	6.8 Transmission Interconnection	37
16. A statement and full explanation of why the proposed facility is needed and how the facility would conform to a long-range plan for the expansion of the electric power grid serving the state and interconnected utility systems that would serve the public need for adequate, reliable and economical service.	5 Statement of Public Need and Project Benefits	14
17. A justification for selection of the proposed site selected including a comparison with alternative sites which are environmentally, technically, and economically practicable. Include enough information for a complete comparison between the proposed site and any alternative site contemplated.	10 Site Identification and Evaluation Process	59
18. Justification that the location of the proposed facility would not pose an undue safety or health hazard to persons or property along the area traversed by the proposed facility including:	11 Potential Environmental Effects	63
a. Measurements of existing electric and magnetic fields (EMF) at the boundaries of the facility site with extrapolated calculations of exposure levels during expected normal and peak line loading;	11.9 Electric and Magnetic Fields	84
b. Calculations of expected EMF levels at the boundaries of the facility site that would occur during normal and peak operation of the facility; and		
c. A statement describing consistency with the Council's "Best Management Practices for Electric and Magnetic Fields", as amended.		
d. A description of the effect that the proposed facility would have on the environment, ecology, and scenic, historic, and recreational values at and around the proposed site, and along new or expanded utility corridors, including effects on:		
1. Public health and safety	11 Potential Environmental Effects	63
2. Local, state, and federal land use, conservation, and development plans	11.11 Local, State, and Federal Land Use, Conservation, and Development Plans	86
3. Existing and future development;	11.11 Local, State, and Federal Land Use, Conservation, and Development Plans	86
4. Adjacent land use;	11.12 Effects on Adjacent Land Use	87
5. Ecological integrity;	11.5 Ecology	81
6. Noise with baseline testing and modeling consistent with State regulations;	11.3 Noise Impact Assessment	77

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18.d.7. Consistency with plans for development and protection of recreational areas and areas of natural history including areas of geologic, ecological, and archaeological interest;	11.11 Local, State, and Federal Land Use, Conservation, and Development Plans	86
8. Visibility based on photographic simulation, artist renditions, and sight line profiles;	11.4 Visual Impact Analysis	80
9. Roads;	11.2 Traffic Impact Analysis	75
10. Wetlands and watercourses;	11.6 Wetlands and Watercourses	82
11. Wildlife and vegetation, including rare and endangered species, critical habitats, and species of special concern, with documentation by the Department of Environmental Protection Natural Diversity Data Base;	11.5 Ecology	81
12. Public water supply watershed and aquifer areas, consistent with state and local conservation and development plans;	11.13 Public Water Supply Watershed and Aquifer Areas	88
13. Archaeological and historic resources, with documentation by the State Historic Preservation Officer;	11.8 Archaeological and Historical Resources	84
14. Other environmental concerns identified by the applicant, the Council, or any public agency.	11.10 Cooling Tower Impact Analysis	85
<p>J. A proposed site map(s) at a scale no smaller than 1 inch = 40 feet, a location map at a scale 1 inch = 2000 feet, and aerial photos of suitable scale showing the site, access, and abutting properties including proximity of the following:</p> <ol style="list-style-type: none"> 1. Settled areas; 2. Schools and daycare centers; 3. Hospitals; 4. Group homes; 5. Forests and parks; 6. Recreational areas; 7. Seismic areas; 8. Scenic areas; 9. Historic areas; 10. Areas of geologic, ecological, or archaeological interest; 11. Areas regulated under the Inland Wetlands and Watercourses Act (to be delineated by a Connecticut Certified Soil Scientist on large scale 1 inch = 40 feet maps); 12. Areas regulated under the Tidal Wetlands Act and Coastal Zone Management Act (to be delineated by a Connecticut Certified Soil Scientist on large scale 1 inch = 40 feet maps); 13. Public water supply sources including wells, reservoirs, watersheds, and aquifers; 14. Hunting or wildlife management areas; and 15. Existing transmission lines within one mile of the site. 	Appendix N: Supplemental Maps (1-12)	

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K. A statement explaining mitigation measures for the proposed facility including: 1. Construction techniques designed specifically to minimize adverse effects on natural areas and sensitive areas; 2. Special design features made specifically to avoid or minimize adverse effects on natural areas and sensitive areas, or to restore degraded areas; 3. Establishment of vegetation proposed near residential, recreational, and scenic areas; 4. Methods for preservation of vegetation for wildlife habitat and screening, and 5. Methods to replace any lost functions or reduced value of wetland areas affected by the proposed facility.	12 Mitigating Measures	88
L. Identification of federal, state, regional, district, and municipal agencies from which approvals have been obtained or will be sought, copies of approvals received, and a schedule for obtaining approvals not yet received.	13 Government Approvals	91
M. Bulk-filing of municipal zoning, planning, planning and zoning, conservation, and inland wetland regulations and by-laws.	19 Bulk Filing of Municipal Documents	96
N. Such information any department or agency of the state exercising environmental controls may, by regulation, require.	N/A	
O. Such information the applicant may consider relevant.	16 Other Relevant Information – Solid Waste Position	95