



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Petition No. 250
Tenth Street Substation
Norwich, Connecticut
Transformer and Switch Gear
April 9, 1990

The City of Norwich, Department of Public Utilities (Norwich DPU), is requesting a determination from the Connecticut Siting Council (Council) that no certificate of environmental compatibility and public need is required for the addition of a transformer and associated support equipment within its existing Tenth Street Substation in Norwich, Connecticut.

On April 5, 1990, Paulann Sheets and Mortimer Gelston of the Council and Fred Cunliffe, of the Council staff, met with Charles Rossoll and Dale Arnold of Norwich DPU on the site of the proposed addition.

The Tenth Street Substation is a switch terminal for a 69 KV to 13.8 KV stepdown for distribution and is located within a heavy industrial zone (I2). The proposed construction would include installation of a 30 MVA step down transformer and associated switch gear adjacent to an existing 26.7 MVA transformer. These additions would be lower in height than existing structures including new poles to support the proposed transformer connection from the existing 69 KV transmission line. The normal load rating for the proposed transformer is 30 MVA with two emergency load ratings of 40 and 50 MVA which would operate over an indefinite period of time. The existing transformer load has been at 26.7 MVA or below during operation. This proposed addition would increase capacity and improve service to the Main Street and Backus Hospital area for a combined normal rating of 56.7 MVA. Fencing along the northeastern side of the substation would be extended 15 feet to accommodate the proposed addition. No significant vegetation or wildlife would be disturbed. The only structure to contain oil would be the existing transformer which has 5,000 gallons. The proposed transformer would have slightly more in capacity. Presently no oil spill containment structure exists, however, one would be designed and constructed with the proposed addition. Norwich DPU will submit an Oil Spill Control Plan to the Council when available. Construction is anticipated to begin fall of 1990 and to be completed by end of June 1991.

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Norwich DPU contends that the proposed addition does not constitute a significant change, alteration or have no adverse environmental effect and therefore does not qualify as a "modification" as defined in Connecticut General Statutes Section 16-50i.

Fred Cunliffe
Siting Analyst

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