

FROM: Iowa Electric Light & Power Company
 Cedar Rapids, Iowa 52406
 G. W. Sandford

DATE OF DOCUMENT: 11-5-71	DATE RECEIVED: 11-8-71	NO.: 106
LTR: X	MEMO:	OTHER:

TO: Mr. Warren Minners

ORIG.: 1	CC:	OTHER:
ACTION NECESSARY <input type="checkbox"/>	CONCURRENCE <input type="checkbox"/>	DATE ANSWERED:
NO ACTION NECESSARY <input type="checkbox"/>	COMMENT <input type="checkbox"/>	BY:

CLASSIF: U
 POST OFFICE:
 REG. NO.:

FILE CODE: **50-331 (ENVIRO FILE)**

DESCRIPTION: (Must Be Unclassified)
 Ltr re telecon on 11-1-71..furnishing
 addl info concerning SHOW CAUSE State-
 ment dtd 10-16-71 and trans:

REFERRED TO	DATE	RECEIVED BY	DATE
Knuth w/4 cys for ACTION	11-8-71	Do Not Remove	
DISTRIBUTION:		ACKNOWLEDGED	

ENCLOSURES:
 Diagram - Transmission Lines For DAEC

Reg File AEC PDR		H. Denton Clair Miles GT	C-459
Compliance (2) Boyd/Grimes		J. Totter GT	E-201
Beck/Mann Felton		J. DiNunno GT	A-170
OGC Rm P-506-A Morris/Schroeder/TR Wilson		W. Williams GT G. Blanc DTIE (Laughlin) NSIC NSIC (Buchanan)	F-309
L. Rogers E. Case		ASLB Mr. Yore	H St

REMARKS:
 (Holding 3 cys for ACRS)
 (Local PDR - Cedar Rapids, Iowa)

L. Johnson Thornton DeYoung			rht
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IOWA ELECTRIC LIGHT AND POWER COMPANY

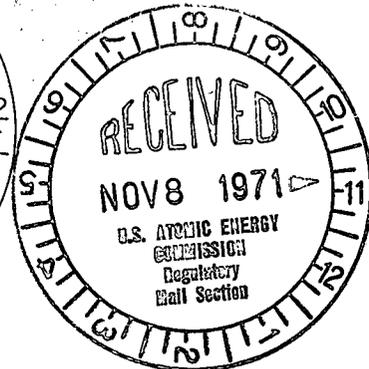
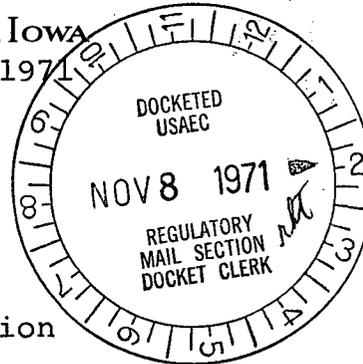
General Office

CEDAR RAPIDS, IOWA

November 5, 1971

C. W. SANDFORD
VICE PRESIDENT

Mr. Warren Minners
Division of Reactor Licensing
United States Atomic Energy Commission
Washington, D.C. 20545



Re: Atomic Energy Commission Docket No. 50-331
Duane Arnold Energy Center

Dear Mr. Minners:

This is with further reference to the telephone conversation which we had on November 1, 1971, during the course of which you requested additional information concerning certain changes which are discussed in the "Statement in Compliance with Paragraph 3 of Section E, 10CFR, Part 50, Appendix D," dated October 16, 1971, and submitted on behalf of Iowa Electric Light and Power Company, Central Iowa Power Cooperative and Corn Belt Power Cooperative. The requested additional information is set forth below.

Startup Testing Effluents

The majority of the startup cleaning of the plant systems will be done with high velocity water. This includes all of the plant piping systems. Only a minor amount of chemicals (trisodium phosphate - TSP) will be discharged to the environment as a result of cleaning of specific major components, including the reactor vessel and the main condenser. In accordance with generally approved practices, the TSP will be discharged to a temporary, on-site leaching pond, where the natural purification action of the soil and sand will ensure a minimal impact.

River Water Intake Structure

The river water intake structures consist of an intake house and a low head diversion wall (referred to in some state

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permits as a low head diversion dam). The intake house is being constructed on the west bank of the Cedar River, approximately 1,500 feet from the main plant buildings. This Class I structure will house the four river water intake pumps, trash rakes and traveling screens. Construction was begun in October 1971 and must be completed in July 1972 to provide water for the cleaning and testing of plant systems.

To ensure availability of river water at the intake house during periods of extreme low river flow, a low head diversion barrier wall will be built across the river from the intake house 430 feet to the opposite river bank.

The top of the low head wall is only $3\frac{1}{2}$ feet above the river bottom from the east bank of the river to a point 50 feet from the intake house. From this point to the intake house the top of the wall is only $2\frac{1}{2}$ feet above the river bottom. The wall will consist of two rows of sheetpiling seven feet apart. The sheetpiling is driven approximately 20 feet below the river bottom to bedrock. The space between the sheetpiling will be filled with sand and rip rap rock. Rip rap will also be placed at the upstream and downstream faces of the wall.

Construction of the barrier wall is scheduled to begin not later than April 1972 and be completed by October 1972.

Construction of the intake house and low head diversion wall will have only minor temporary effects. The wall will not be visible except during extreme low flow of the river. Construction of the intake house and low head wall has been approved by the Iowa Natural Resources Council, and the Iowa Conservation Commission after a public hearing.

Dredging

Dredging of river sand, which was conducted principally for obtaining compacted fill and back-fill for plant structures has been completed. The dredge has been removed. The remaining

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river bottom effect will only be minor disturbance in the area of the intake structure, and during the installation of the low head diversion wall.

Lake Project

The joint recreational lake-reservoir program came into being because of the need for outdoor recreational areas in Eastern Iowa and of the need of applicants for a supplemental water source for cooling tower makeup.

Design of the dam is not scheduled to be completed before January 1, 1973; the Iowa State Conservation Commission, which will own the land, design and construct the facility, is not scheduled to complete its acquisition program until March of 1973; and actual construction is not scheduled to begin until sometime between the latter date and July 1, 1973. Accordingly, the construction schedule is such that the full NEPA review should be completed before the land, trees or vegetation are disturbed. No change in the construction schedule, as shown on page 43 of the Statement, is contemplated. However, applicants will inform the Atomic Energy Commission in advance should any change in the schedule be planned.

After completion of the lake, it and the adjacent Commission-owned lands will become a part of the State of Iowa's recreational facilities for use by the general public.

The legislature of the State of Iowa approved the project on July 1, 1971. The Bureau of Outdoor Recreation of the United States Department of Interior has reviewed the project and has accepted the plans of the Iowa Conservation Commission as partially satisfying the deficiency of recreational areas in Eastern Iowa. Specific requests for funds from the Bureau of Outdoor Recreation will be made in January of 1972. Applicants agreed to contribute up to \$1,000,000 of the cost of the project for the exclusive right to use of the water (for return to the Cedar River) to replace that used in the DAEC cooling

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towers, whenever the Cedar River drops below a flow of 500 cubic feet per second. From the foregoing, it is clear that the applicants contribution to the project will only be financial; in fact, the project will be designed and constructed by the Iowa Conservation Commission.

Transmission Lines

The construction for the DAEC transmission lines is scheduled in two stages. A 161 KV line from the Hiawatha substation will be completed by April 1972 and construction of the remainder of the lines will begin in the summer of 1972 (see attached sketch).

The 161 KV Hiawatha-DAEC line is an integral part of the construction schedule of the DAEC and is essential to maintaining that schedule. Power is to be transmitted from applicants' present generating facilities to the site to permit the testing of electrical equipment that will be installed by April of 1972. This equipment must be tested and made operational before the next phase of construction can be completed.

Applicants have complied with the requirement of the laws of Iowa (see page 36 of Statement) with respect to the acquisition of transmission line right-of-way. After due notice to the public, public meetings were held on January 21, 1971, and April 20, 1971, with the affected owners and occupants of the property over which the proposed 161 KV line would traverse. As a result of the two public meetings, applicants were able to voluntarily secure all necessary private right-of-way without the use of eminent domain proceedings.

The 8.2 miles of transmission line right-of-way will consist of 3.8 miles over rolling hills used mainly for grazing cattle, 2.7 miles over land to which applicants hold fee title and 1.7 miles on public highways, of which 1.1 miles will occupy existing electric distribution line right-of-way. The Iowa Highway Commission approved the permit to use this highway on October 11, 1971.

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Where the line is on other than applicants' property, the owner or person controlling said right-of-way was consulted as to type of structures and approval secured for minimum, specific tree removals.

The routing was reviewed with the Iowa State Conservation Commission and the Linn County Conservation Commission so as to avoid present and proposed state and county parks recreation areas and game preserves.

Prior to building the line the Iowa Commerce Commission will review its design and routing before granting a franchise for its construction.

Publication of a notice has been made advising residents of area where line is to be located that a franchise application has been filed. No opposition is anticipated and a franchise is expected to be approved in December 1971.

The remainder of the transmission lines are in various stages of the Iowa State Commerce Commission franchising procedure. We anticipate no significant opposition be expressed during the course of these procedures and do not expect to begin construction before July 1972. If any earlier starting date is contemplated, the applicants will notify the AEC.

As you know, we have recently forwarded a verification under oath of the facts contained in the Statement. Since the facts set forth above are intended to supplement those contained in the Statement, we think it appropriate also to verify these facts under oath and I am transmitting a verification herewith.

If you require any further information, please do not hesitate to advise.

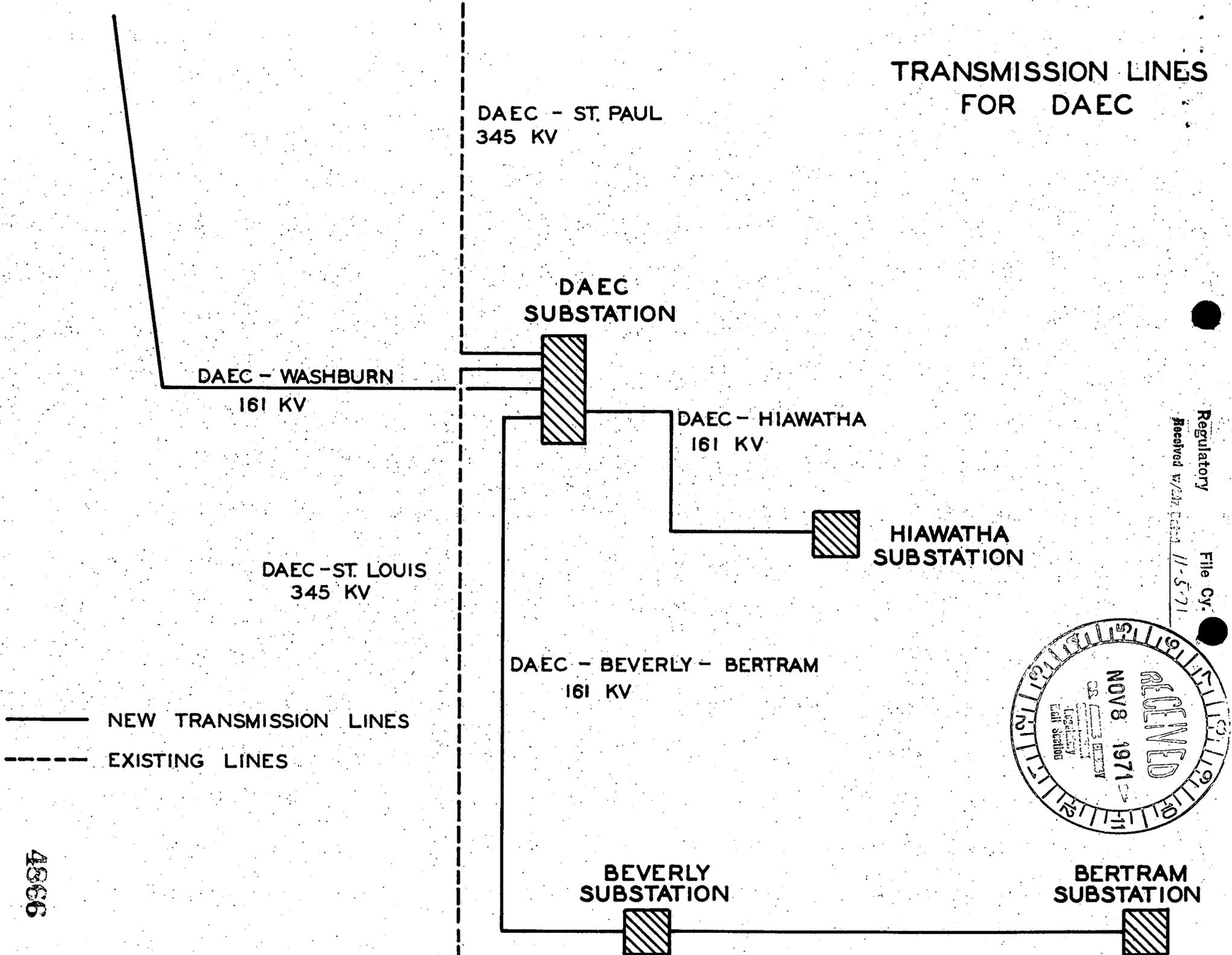
Sincerely,

C. W. Sandford
by *Jeremy M. Sand*
C. W. Sandford
Vice President

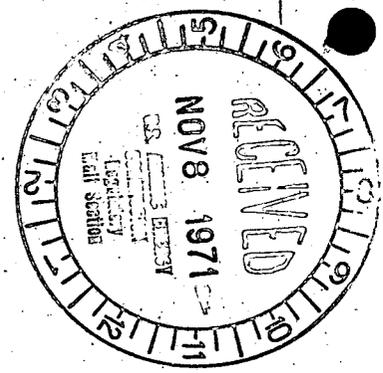
CWS:jm

cc: R. Lowenstein

TRANSMISSION LINES FOR DAEC



Regulatory
Received w/247 Encl. 11-5-71
File Cy.



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