

August 31, 1983

Docket  
NRC PDR  
Local PDR  
ORB Reading  
NSIC  
DCrutchfield  
HSMith  
RGilbert  
OELD  
ELJordan  
JMTaylor  
ACRS  
SEPB

Docket No. 50-237

Mr. T. N. Groutage  
Field Supervisor  
U. S. Fish and Wildlife Service  
1830 Second Avenue  
Rock Island, Illinois 61201

Dear Mr. Groutage:

SUBJECT: ENDANGERED SPECIES CONSULTATION

Dresden Nuclear Power Station, Unit 2

The Commonwealth Edison Company has been operating the Dresden Nuclear Power Station, Unit No. 2 since December 22, 1969 under a provisional license. We are now processing the documentation required for a full-term license for the Unit. The approximate geographical coordinates for the station, which is located in Grundy County, Illinois, are 41° 20' N and 88° 15' W. A map of the site location and information on and a conceptual map of pertinent transmission lines are enclosed.

In conjunction with this process we are reviewing the Final Environmental Statement (FES) published in November 1973. Based on our interpretation of Section 7(c) of the Endangered Species Act Amendments of 1978 (PL 95-632) and the fact that construction of the Dresden Station began prior to November 10, 1978, initiation of consultation is not required. However, to assure a thorough review, we request that your office provide any information you have on the distribution of any plants or animals listed or proposed to be listed as endangered or threatened species and which may be present in the vicinity of the Dresden Station or its associated transmission corridors.

In addition to the material referenced above, we are enclosing information requested by you in a recent telecon. This material includes the Department of Interior comment letter on the Draft Environmental Statement, the staff's response to that letter and the licensee's January 10, 1983 submittal of an Environmental Review of the FES. We would appreciate your examination of this material and the processing of our above request as soon as possible. If you have any questions on this matter, please contact the NRC's Dresden Station Project Manager, Dr. Robert A. Gilbert, at FTS 492-7128.

Sincerely,

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DSU USE EX (16)*

Original signed by

Dennis M. Crutchfield, Chief

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PDR ADOCK 05000237  
D PDR

OFFICE			Operating Reactors Branch #5		
SURNAME	Enclosures:	As stated	DL:ORB # 5	Division of Licensing EHEB	DL:ORB #5
DATE			RGilbert:jc	RSamworth	RBAllard
			8/30/83	8/30/83	8/30/83
					DCrutchfield
					8/31/83



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Sincerely,

  
Dennis M. Crutchfield, Chief  
Operating Reactors Branch #5  
Division of Licensing

Enclosures: As stated

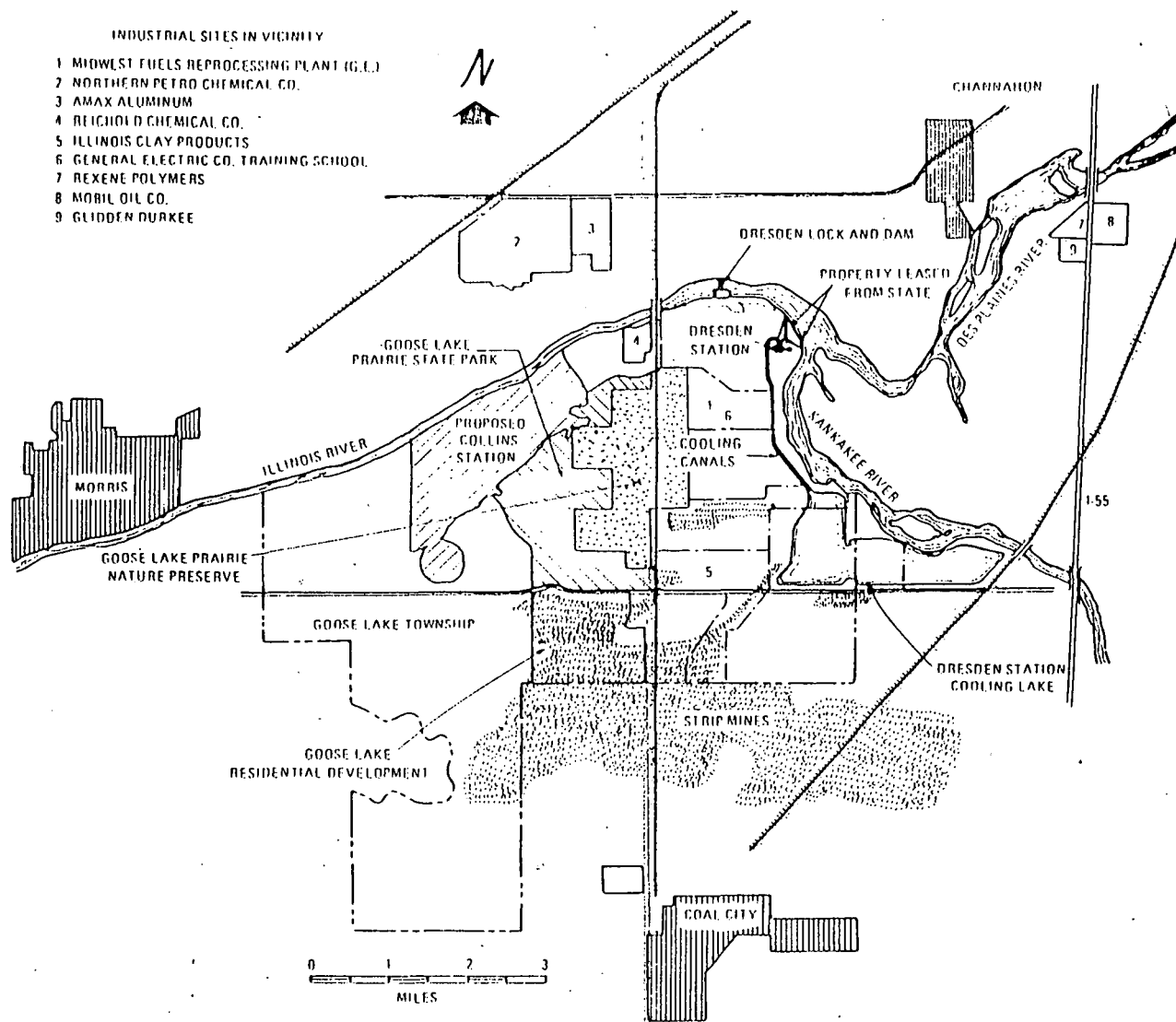


Fig. 2.4. Dresden Nuclear Power Station Area Map. From Applicant's Environmental Report, Supplement II.

### 3.7 SANITARY WASTES AND OTHER EFFLUENTS

#### 3.7.1 Sanitary Wastes

The Station sewage treatment facilities provide primary and secondary treatment with chlorination. The design capacity is 50 gallons per man day for 300 men. The maximum number of persons on site during a 24-hour period, which would be during a refueling outage, will be about 180.<sup>22</sup> The treatment works is supervised by a duly qualified sewage works operator certified under the regulations of the Illinois Sanitary Water Board.<sup>22</sup>

The treatment plant consists of a 12-foot Spirahoff tank, an 18-foot diameter trickling filter equipped with a water wheel rotary distribution, an unmechanized final settling tank equipped with a wet pit type sludge return pump, chlorine contact chamber, chlorinator and control equipment in a small enclosure.<sup>22</sup> Sewage is discharged to the treatment plant by means of four pneumatic sewage ejectors of 60-gpm capacity each, located in a lift station about 1200 feet from the treatment plant site, and the effluent from the treatment plant is discharged into the Illinois River via a pipe located downstream of the intakes. The free chlorine concentration at the settling tank is maintained at about 1 ppm and is undetectable when the effluent is discharged to the river some 300 yards from the settling tank.

#### 3.7.2 Other Effluents

Four diesel-powered emergency generators are included in the Station; three are used in Units 2 and 3 and one is assigned to Unit 1. Each is rated at approximately 2500 kWe (continuous duty) and is run approximately one hour once a month for routine surveillance and occasionally as required for emergency use. Two startup boilers for Units 2 and 3 are also oil-fired and used intermittently. These boilers are also used for space heating, as is an additional boiler in the building housing Unit 1. The water pumps used for fire-fighting are also diesel powered. The quantities of gases emitted from all oil-fired equipment at the Station are listed in Table 3.12.

Miscellaneous non-radioactive solid wastes, such as industrial trash, material removed from the trash rack and fish or other material deposited in the collection basket of the traveling screens, are removed by a commercial waste disposal company and disposed of off-site.<sup>23</sup>

### 3.8 TRANSMISSION FACILITIES<sup>4</sup>

Units 2 & 3 are served by five 345-kV transmission lines. Construction of these lines, which total 92.9 circuit miles, was completed in November 1969 (Fig. 3.18).

Two of the lines, each 1.1 miles long, link the Station with an existing transmission line between the Pontiac substation (south) and the Electric Junction substation (north), east of Aurora, Illinois. These lines are located on a right-of-way that borders the west edge of the Station and are on the Dresden Station property.

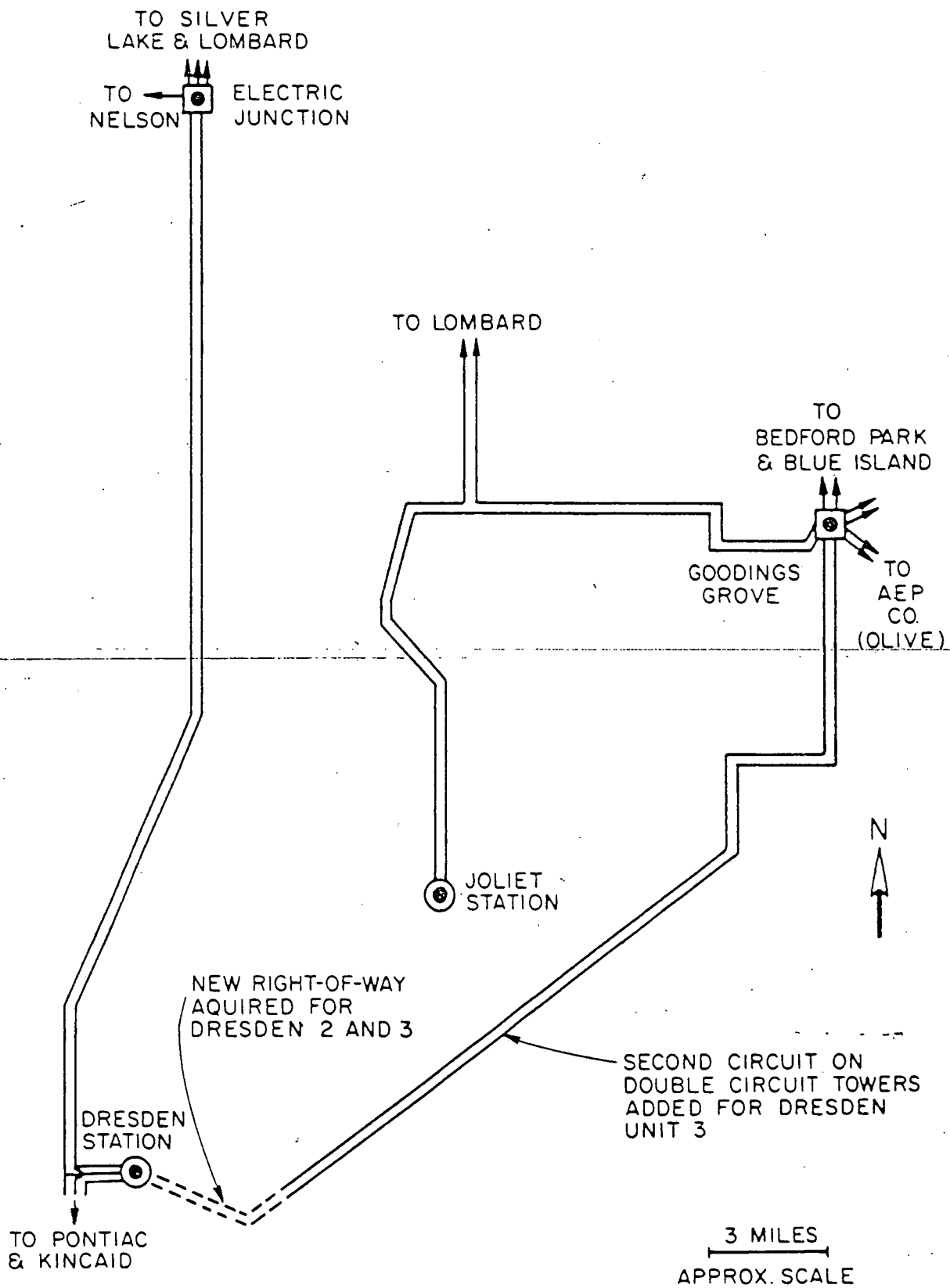


Fig. 3.18. The 345-kV Transmission System near the Dresden Station.  
From Applicant's Environmental Report, Supplement I.

The first 1.1 circuit miles of the third line follow the route of the two lines noted above. From the junction with the Pontiac-Electric Junction transmission line, however, an additional 30-circuit-mile line was added to existing transmission towers and extended to the Electric Junction substation (north). The addition of this line required no new right-of-way and was totally installed either on the Station property or in a vacant position on existing towers.

The remaining two lines are each 29.8 circuit miles long and extend from the Station to the Goodings Grove substation, east of Lockport. The first four miles of these lines were installed on new right-of-way acquired for this purpose. The first 1.3 miles cross Dresden Station property and an adjacent industrial area; the next 2.2 miles pass through a mixture of residential, industrial and farming areas; the next 0.5 mile crosses a State of Illinois conservation area. The remaining 25.8 miles (51.6 circuit miles) of these lines were installed on new structures on an existing right-of-way which passes mainly through farm land.

The tree trimming in the State of Illinois conservation area was done with the approval of the Illinois Department of Conservation. Long span, double circuit towers were used to reduce the number of structures and were installed adjacent to existing towers to minimize visual impact and restrictions to farming.

### 3.9 CONSTRUCTION PLANS

Because both Units 2 and 3 are completely built and operating, no large-scale construction activity is anticipated at the Dresden site. Aside from the addition of the radwaste treatment building, most of the anticipated work involves only the assembly and installation of equipment and all construction and installation work will occur on the Station property and within or immediately adjacent to the present plant buildings. The required cooling lake and cooling canal modifications are completed. Operation of the cooling system in the closed-cycle mode must await completion of the radwaste modification, which is anticipated to occur in February 1974.