JOB NO. 8031

PHILADELPHIA ELECTRIC COMPANY

LIMERICK GENERATING STATION

REPORT ON AMBIENT NOISE SURVEY

By S. C. Lou September 24, 1973

INTRODUCTION

As part of the environmental consideration for the design and construction of the Limerick Generating Station, a sound survey of the area surrounding the plant site was conducted by F. H. Brittain and S. C. Lou, both noise specialists of Bechtel. In order to obtain a variety of ambient conditions with minimum interference from construction, the measurements were made on Tuesday, June 12, 1973, when schools in the area were still in session; in the early morning of Wednesday, June 13, between the hours of 2 and 4 a.m.; on Wednesday, June 13, the first day the schools were out; and on Saturday morning, June 16, representing a weekend, when all construction at the plant ceased. During the week days, construction was limited to some earth moving equipment working at a slack pace.

SITE DESCRIPTION

The site of the generating plant is located about 2 miles southeast of Pottstown, Penn., on the east bank of Schuylkill River as it flows toward Norristown and Philadelphia into the Delaware River. To the north is the town of Sanatoga and to the south are Linfield and Parker Ford, all within 1 to 2 miles. U.S. Highway 42. runs east-west about 1 mile north of the site, and at about the same distance to the southwest is State Highway 724.

Concentrated residences are located in Pottstown and Linfield, each about 2 miles from the plant. More scattered residences are found along Ridge Pike, which extends east from Pottstown's main business street, High Street; along Schuylkill Road, a main road parallel to Highway 724 on the west side of Schuylkill River, and along some smaller roads around the plant site.

General terrain of the area consists of rolling hills with open fields interspersed with densely wooded sections. The immediate vicinity of the LGS site is especially largely forested.

Besides the many industrial and commercial operations in Pottstown, there is a big Continental Distillery to the south of LGS, a large Firestone Plant to the northwest, and some light industrial operations on the west bank of the river. Reading Railroad tracks run on the east bank and alongside the west fenceline of the plant, while Penn Central tracks run on the opposite bank.

A topographical map, Drawing No. LGS-101, shows the general features of the area and the relative locations of the different parts described. On this map are also shown the numbered points where noise measurements were made. These points were chosen to give a reasonable spread of measuring locations. They also

represented various existing environments such as residential, commercial, industrial, traffic, etc. The site of the Limerick Generating Station is shown by the edge-hatched area in the center. Description of the measuring points is shown on Sheet No. LGS-102.

SURVEY PROCEDURE

A quick traverse of the area surrounding the plant site was made on the morning of June 12 during which the surveyors familiarized themselves with the location and selected the points of measurement. The first round of noise level readings were taken in the afternoon of June 12, but the midnight survey was delayed 2 or 3 hours by a heavy thunder storm. Daytime readings were again taken on Wednesday, June 13, to note any difference due to schools being in or out of session. Finally, the same survey was repeated on Saturday, June 16, to include a weekend noise condition. Description of the days of measurement is shown on Sheet No. LGS-103.

Measuring instruments used were: B&K Type 2209 Impulse Precision Sound Level Meter with 1" microphone, B&K Type 1613 Filter Set, and B&K Type 4220 Piston-phone for calibration. A tripod and a windscreen were used with the meter throughout the measurements. The sound level meter was calibrated with the pistonphone before and after each complete survey, and it was checked for battery and internal calibration before and after measurement at each point. The instrument was found to be in calibration at all times, and no adjustment was necessary to any of the readings taken.

NOISE SOURCES

Except where specifically noted, only the level of the general noise prevailing at each location was measured. Bursts of noise due to automobiles driving by, jet planes flying over, or dogs barking in the neighborhood were not considered as prevailing ambient noise and were not recorded. Sources constituting the ambient or background noise included wind, rustling leaves, birds, insects, traffic, distant industrial plants, and dripping and flowing water, especially after the Tuesday night thunder strom. These sources were listed, where relevant, on the data sheets for the different measuring points.

RESULTS

The measured noise levels are tabulated on data sheets LGS-104 through LGS-112, which show measuring points and day of survey, as described in LGS-102 and 103, the time the measurements were made, and both the A-weighted and the octave band sound levels. Other pertinent information is shown at the top of the data sheets.

The dBA levels at different locations and different times are summarized in the table on Sheet LGS-113.

SOME OBSERVATIONS

Except on three occasions, the ambient noise level at all locations around the Limerick Generating Station was between 39 and 50 dBA. The three exceptions were: Point 3 outside the subcontractor gate where the operation of some earth moving tractors raised the ambient noise level to 60 dBA; Point 2 on the east end of a trussed bridge on Schuylkill River, where a passing train produced a noise level of 67 dBA - after the train passed, the level dropped to 50 dBA - and Point II at the Firestone Plant where the noise from the plant measured 54 dBA.

From LGS-113, it is seen that at points 1, 3 and 5 the noise level dropped appreciably between Twesday afternoon and predawn Wednesday or Saturday morning. If the noise at these points was attributable to the Firestone Plant, the construction inside the LGS site, and Continental Distillery respectively, then the drop might be due to reduced activity at night and on weekends. Point 2, which was located between LGS and the Firestone Plant, would have shown the same pattern except for the predawn noise level which, instead of going down, actually increased. This was believed to be due to increased water flow in the adjacent river after the heavy rain fall.

If variations of 1 or 2 dB are to be considered insignificant, then the only other observation from the summary table on LGS-113 is that the daytime level was higher on Wednesday than on Tuesday (Points 7, 8 and 9). School being out could be one of the reasons for this phenomenon. However, the readings on Saturday morning at these points seemed to contradict this explanation.

Description of Measuring Points. See Area Map

- Point 1 In front of 1435-1443 Sunset Drive. Quiet residential area.
- Point 2 East of trussed bridge on Schuylkill River.
 Both bridge and road blocked on days of survey. Railroad
 tracks next to the road and quarry about 1000 ft. to the east.
- Point 3 On Possum Hollow Road outside of Subcontractor gate.

 One residence next to fence owned by P.E. Another residence about 250 ft. further away.

 Light construction going on (Bulldozer moving earth).
- Point 4 Corner of Sanatoga and Limerick Center Roads.
 Relatively busy intersection. Open fields with only a few houses in the immediate vicinity.
- Point 5 Church and Reformed Roads in Linfield.
 Parking lot at back of a church. Commerical area.
- Point 6 On 5 ft. embankment on Long View Road close to railroad tracks. Paved road ending about 100 ft. to the north. Open fields around.
- Point 7 In Oak Grove Cemetary on Old Schuylkill Road near Saylors Mill Road. Schuylkill Road is a main thoroughfare and highway 724 is less than 1000 ft. away.
- Point 8 In another cemetary on Old Schuylkill Road near Ellis Woods Road. Highway 724 is less than 1000 ft. to the northeast and U.S. 422 traverses about 3000 ft. to the north.
- Point 9 In a tall grass field off Fricks Lock Road. Residences across and up and down the road. Big Eastern Warehouse about 200 ft. away.
- Point 10 Backyard of P.E. owned residence at northeast corner of Limerick Station just outside the property fence. During construction, a batching plant and various tankage fabricating operations will be located in the area inside the fence.
- Point 11 In the parking lot of Firestone Plant. "

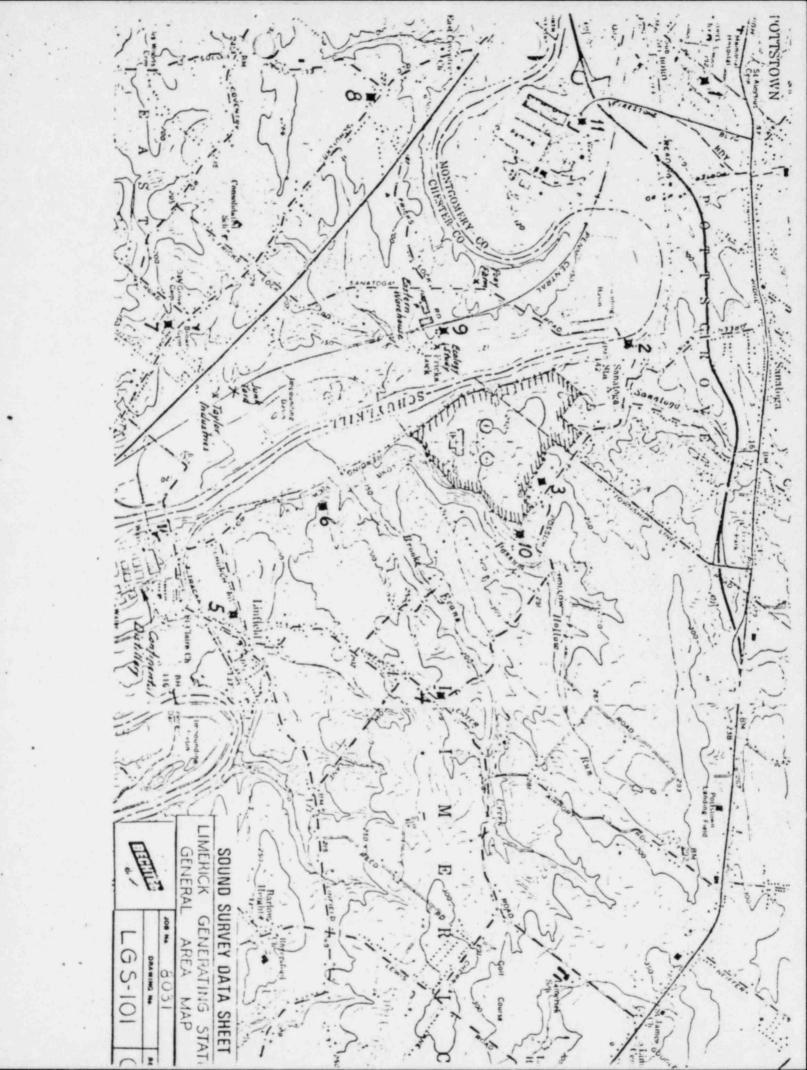
Description of Days of Measurement.

- A Tuesday, June 12, 1973.

 Fair and hot with temperature in the 90's, slight breeze and high humidity. Heavy thunderstorm from 9 p.m. to 1:30 a.m. Wednesday.
- B Wednesday, June 13, 1973.

 Before dawn, cool after the rain, around 60°F. No wigd. Fair and warm during the day with occasional showers, 70° 80°F temperature with little wind.
- C Saturday, June 16, 1973, morning.

 Overcast and cool, 60° 70° F, with little wind.



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INSTRUMENT USED	OCT-BAND ANAL.	MIKE-PREAMP	CALIBRATOR	
MAKE AND TYPE	83% Types 2209/1613		81 K Type 4220	

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Note: This set of data was obtained with a General Radio

Type 1558 A Octave Band Analyzer concurrently with

the measurements taken with the BIK instrument

at the same location.

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ENVIRONMENT <u>Five</u> WEATHER See LOS-				_REL. HUM
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Note: Train possing at about 60 ft from and 20 ft. above micrephone location. Train speed estimated at 20-25 mph.

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INSTRUMENT USED	OCT-BAND ANAL	MIKE-PREAMP	CALIBRATOR	
MAKE AND TYPE	31K 2209/1613		81K 4220	

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SOUND SURVEY DATA SHEET

JOB No. 8031 DRAWING No.

LGS-109

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INSTRUMENT USED	OCT-BAND ANAL	MIKE-PREAMP	CALIBRATOR	

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NOISE SOURCE	vs			
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MAKE AND TYPE	BYK 2209/1613		B# K 4220	

NO.	3CE			DAY	SOUND	LEVEL		5	SOUN	ID PE	RESS	URE	LEVE	L	
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94				1.20		40	53	52	51	44	37	3/	33	28	15
9B				3:54 a.m.		39	53	57	50	43	35	32	26	17	9
98				12:46		44	55	57	53	43	39	3.2	33	29	18
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WEATHER See LGS-103 TEMP WIND REL HUM. INSTRUMENT USED OCT-BAND ANAL MAKE AND TYPE 84K 22C4/16/3 SUND LEVEL SOUND PRESSURE LEVEL BESCRIPTION OF MICROPHONE LOCATION WEIGHTED OCTAVE BAND CENTER FREQUENCY, F WIND WEIGHTED OCTAVE BAND CENTER FREQUENCY, F WEIGHTED OCTAVE OCTAVIO OCTAVE OCTAVE OCTAVE OCTAVE OCTAVE OCTAVE OCTAVE OCTAVE OCTAV				· 165.	103	ГЕМР		V	VIND				F	REL F	MUH		
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	Α		В		c	D		
Point of Measurement	Tuesday Afternoon 6/12/73		Change in Noise Level from Col. A		Change in Noise Level from Col. A		Change in Noise Leve from Col.	
1	49	39	(-10)	-		43	(-6)	
2	48	50	(+2)	-		43	(-5)	
3	60	44	(-16)	-	-	44	(-16)	
4	43	43	(0)	-		42	(-1)	
5	46	39	(-7)	-	-	40	(-6)	
6	41	43	(+2)	-	-	42	(+1)	
7	44	-	-	48	(+4)	43	(-1)	
8	46		-	49	(+3)	44	(-2)	
9	40	39	(-1)	44	(+4)	43	(+3)	
10			-	44	-	41		
11	-	54		-				

0

A						
	9/24/73		Issued with Noise Report	FHB SCL		
No.	DATE		REVISIONS	BY	CH.K	APPR
	ORIGIN	COMMUNITY NOISE LEVELS LIMERICK GENERATING STATION		JOB No. 8031		
				SPEC DE	REV.	
				LGS-11	0	