



SUSQUEHANNA STEAM ELECTRIC STATION

P. O. BOX 467  
BERWICK, PA 18603  
(717)- 542-2181

IEHQ FILE COPY

50-387

May 20, 1982

Ms. Sharyn Eklund  
U. S. NRC  
Emergency Preparedness Branch  
4330 East West Highway  
Bethesda, MD

Dear Sharyn:

Enclosed is a copy of PP&L's proposed methodology for conducting the fully integrated operability test of the Public Notification System for Susquehanna SES on June 4, 1982.

Please contact me at your earliest convenience if you have any comments or suggestions. If I can make any arrangements for your observation of this test, if desired, please let me know.

As advertising and public information material is available, I will forward copies for your information. Since this methodology was prepared, we have confirmed with the Luzerne and Columbia County Emergency Directors participation of local EBS stations in the test on June 4th.

*Charlie*

Charles R. Wike  
Supervisor-Nuclear Emergency Planning

CRW/mm

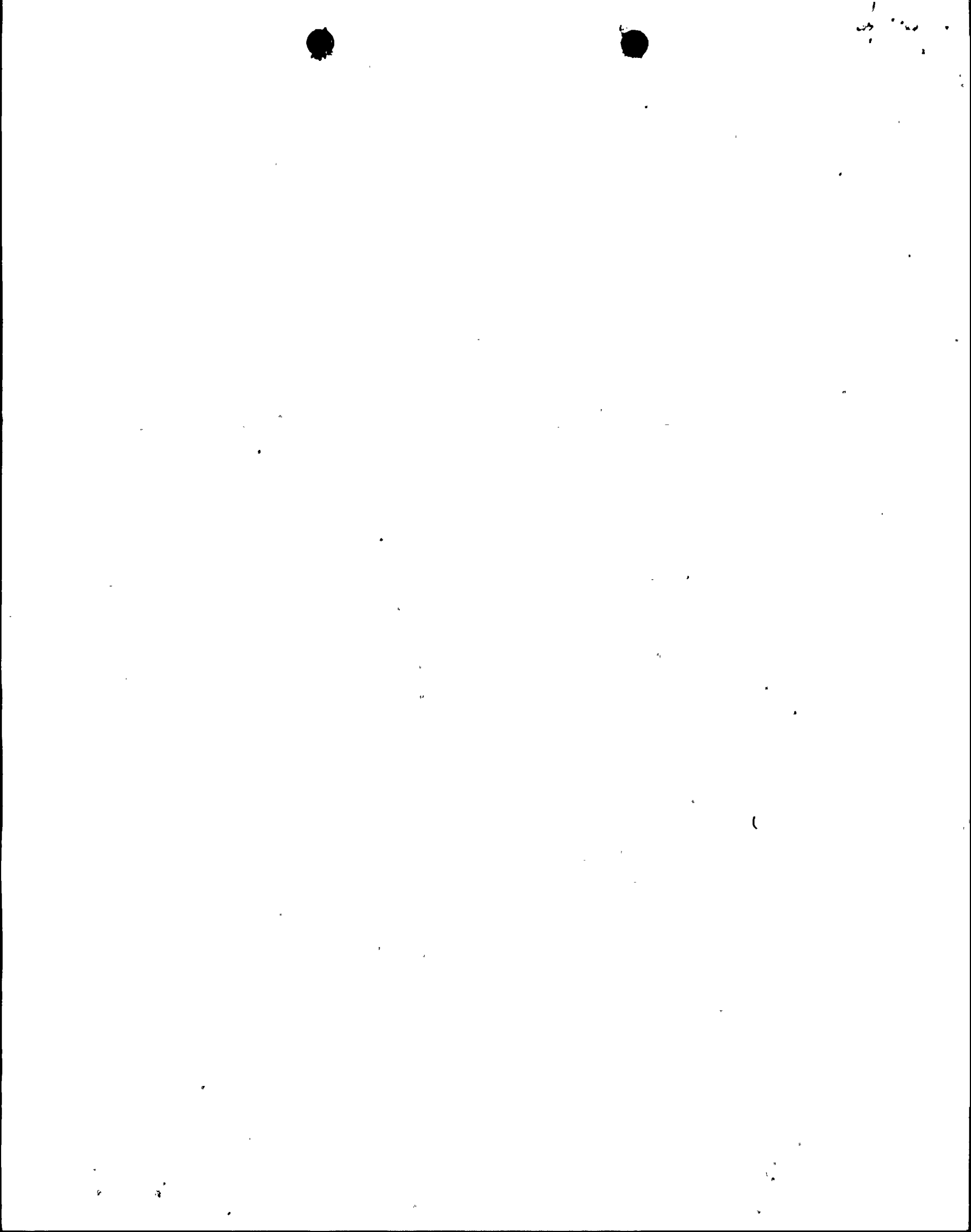
Attachment

*APP*

8205280339 #

IE35

111



Susquehanna SES  
Methodology  
Initial Testing of Prompt Public Notification System

I. Introduction

NRC and FEMA guidance as found in 10CFR50 Appendix E, NUREG 0654/FEMA REP-1, and CPG1-17, require the installation and testing of an adequate system to provide prompt public notification and alerting to residents living within the 10 Mile EPZ of nuclear generating facilities. At Susquehanna, PP&L has elected to install and maintain a radio activated siren system consisting of 110 sirens to comply with this requirement. System design and siren placement were developed thru extensive field evaluations by Bolt, Baranek and Newman, siren installation was made by PP&L distribution and radio installation was provided by PP&L radio maintenance. System acceptance testing was completed on May 10, 1982.

II. Discussion

Responsibility for verification of offsite emergency preparedness rests with the Federal Emergency Management Agency, this encompasses State, County and Municipal Emergency Response Plans as well as the Public Notification System. To date, FEMA has not established an acceptable process for testing and verifying alert and notification systems around nuclear facilities. NRC regulations require the installation and testing of these facilities by February 1, 1982 for operating nuclear facilities and prior to issuance of an operating license for facilities in the construction phase. For Susquehanna SES this requires a full integrated system test prior to July 1, 1982. In the absence of FEMA testing procedures, the NRC has developed interim guidance for system testing. The following methodology is developed to comply with this NRC guidance.

III. Methodology

Susquehanna SES has a PNS consisting of 110 sirens covering the 10 Mile EPZ encompassing areas of Luzerne and Columbia County utilizing fixed and rotating dual tone sirens. With concurrence from PP&L, NRC, FEMA, Luzerne and Columbia Counties, June 4, 1982 at 12:00NOON was established as the date and time to conduct the initial integrated PNS activation test. Noon time was selected as a desired time to assure maximum public awareness and minimum public disruption of daily activities.

A. Pre-test activities

1. Selection and location assignment of 150 to 170 PP&L employees as test observers.



2. Preparation and dissemination of a mailer to residents within the 10 Mile EPZ explaining the details of the test as well as the public participation in the test.
3. Preparation and dissemination of news releases and advertisements to the print and broadcast media to assure public awareness.

**B. Test day activities**

1. Deploy observers to each siren location to hear and observe the performance of each siren. Specific performance checks are contained in Attachment 1. Observers are to position themselves at a distance of approximately 100 yards from the siren.
2. Deploy observers to inhabited potentially uncovered areas to observe the effectiveness of siren coverage. Specific checklist is contained in Attachment 2. Observers are to position themselves as close to residences as possible, insuring no interference on private property.
3. To verify activation of the system from both County EOC's, Luzerne County will activate the system at 12:00NOON for one complete cycle and Columbia County will activate the system at 12:05PM for one complete cycle.
4. Verification of siren effectiveness will be accomplished by two methods:
  - a. County EOC Communications Centers will be manned and will receive calls from residents in the 10 Mile EPZ.
  - b. A small select telephone call verification check will be conducted by NEP and the Special Office of the President - this will encompass approximately 200 phone calls with emphasis on residents within the first 5 miles of the EPZ.
  - c. Telephone verifications will be recorded on Attachment 3.

Susquehanna SES  
PNS Activation Test Check List

NAME \_\_\_\_\_ Ext. \_\_\_\_\_  
SIREN NUMBER \_\_\_\_\_ Grid Coordinates \_\_\_\_\_  
Date \_\_\_\_\_

<u>Siren Test #</u>	<u>Time of Day Siren Started</u>	<u>Time of Day Siren Stopped</u>
1	_____	_____
2	_____	_____

(Each test lasts about 3 minutes. There will be two tests.)

	<u>Yes</u>	<u>No</u>
Did siren operate continuously throughout each test?	_____	_____
Did the siren horn rotate? (Not all sirens rotate)	_____	_____

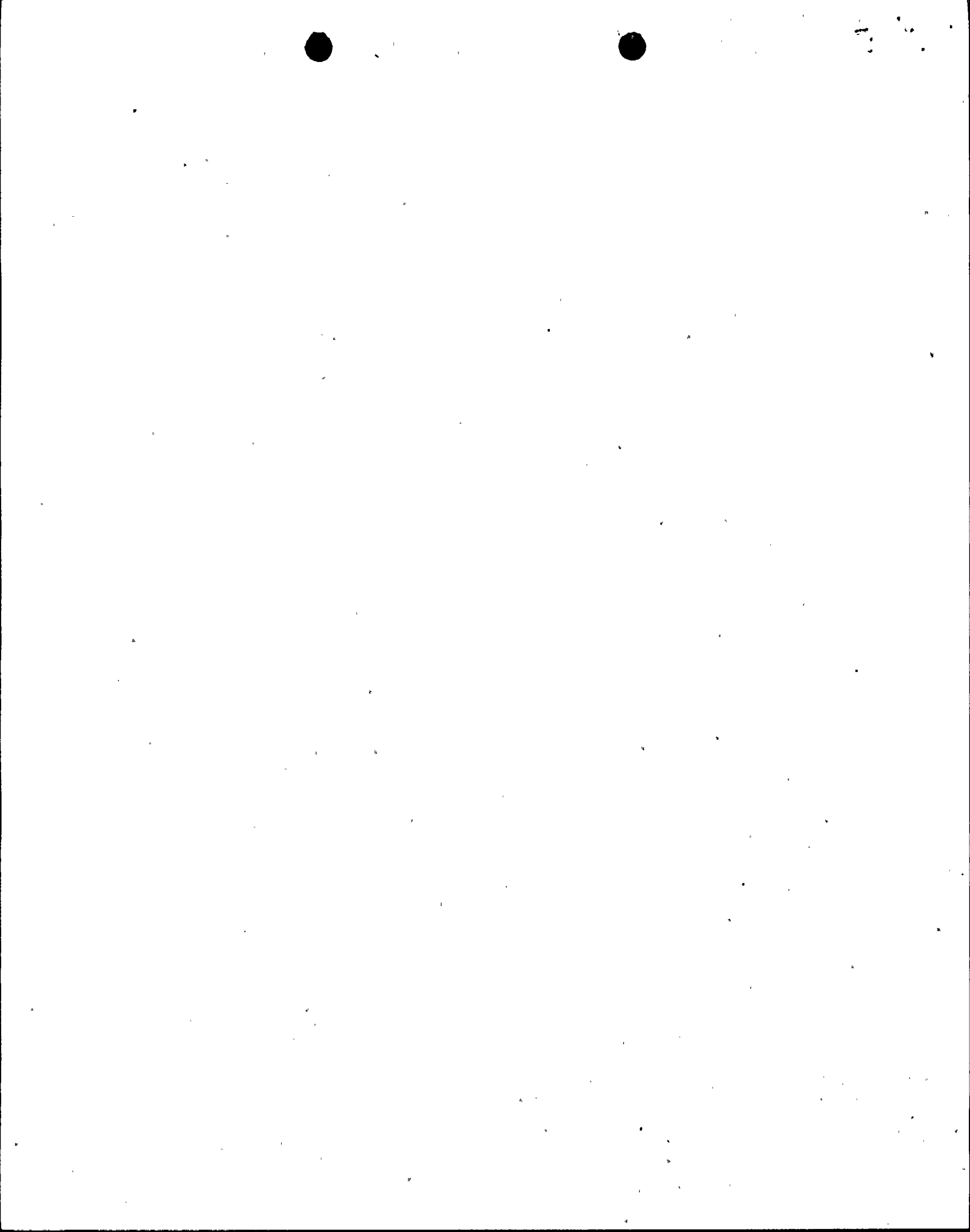
Was there anything unusual about the siren's operation? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTE: If siren fails to automatically cycle off, please contact one of the County EOC's immediately:

Luzerne County	825-1776
Columbia County	784-6300



Susquehanna SES  
PNS Activation Test Check List

NAME \_\_\_\_\_ Ext. \_\_\_\_\_

GRID COORDINATE LOCATION \_\_\_\_\_

Date \_\_\_\_\_

Test #1

Test #2

Yes

No

Yes

No

Did you hear the siren? \_\_\_\_\_

For what duration was the signal heard? \_\_\_\_\_ mins.

Was the signal \_\_\_\_\_ loud \_\_\_\_\_ barely audible?

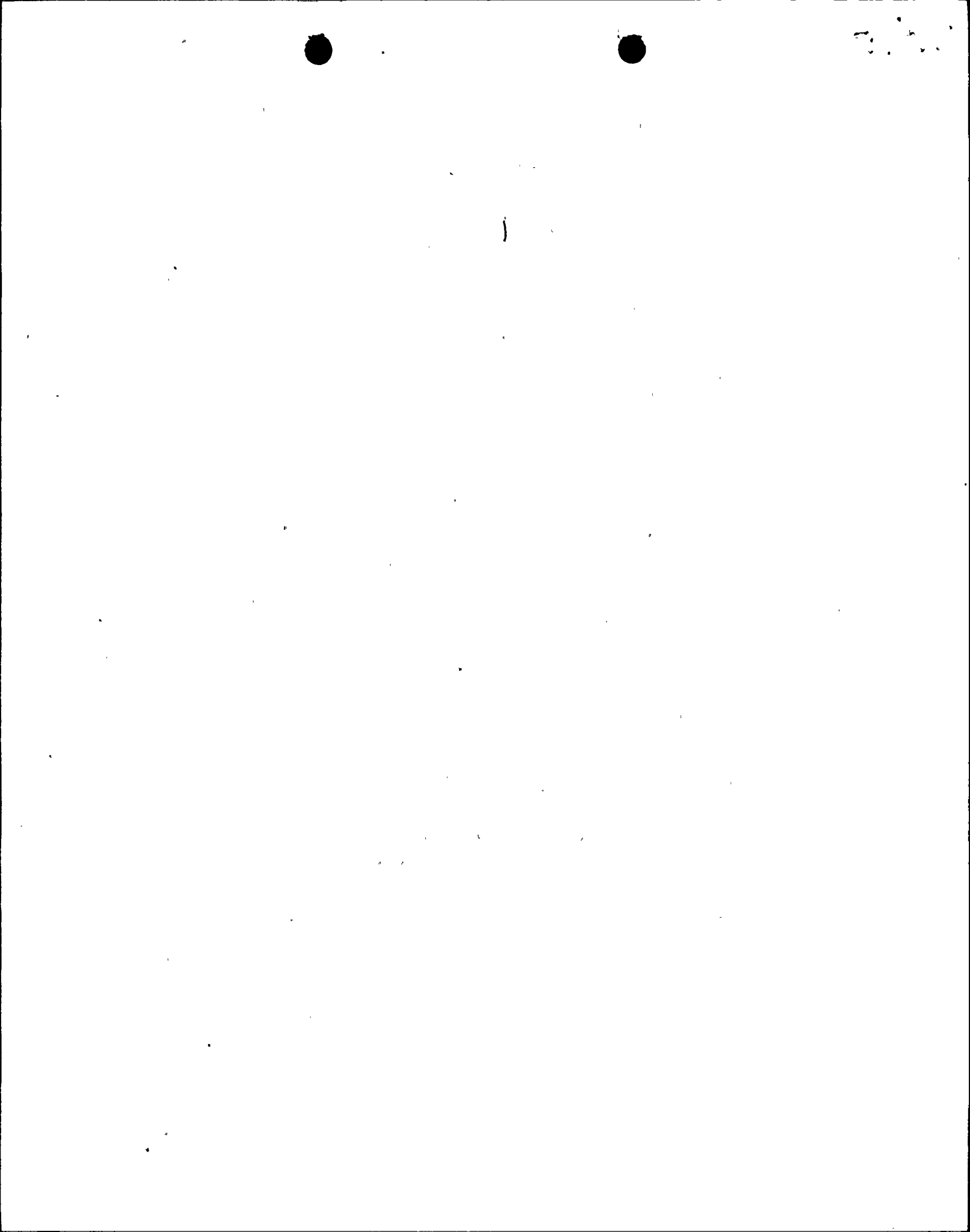
Was there any unusual public reaction in your location? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





Susquehanna SES  
PNS Activation Test Telephone Verification  
Checklist

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
\_\_\_\_\_

	Yes	No
Did you hear the sirens?	_____	_____
Was the signal loud?	_____	_____
Was the signal soft?	_____	_____
Did you know what to do (turn to EBS station) after the signal sounded?	_____	_____
Were you outdoors or indoors when you heard the signal?	_____	

