NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
P.O. BOX 41
LYCOMING, NY 13093
DOCUMENT TRANSMITTAL AND RECEIPT ACKNOWLEDGEMENT FORM

DATE: March 16, 2000
CONTROLLED COPY NUMBER: 34

TO: **U.S.N.R.C. Document Center/Washington, DC**

FROM: CATHY IZYK - EMERGENCY PLANNING DEPARTMENT

SUBJECT: EMERGENCY PLAN AND IMPLEMENTING PROCEDURES

Enclosed are revisions to your assigned copy of the JAFNPP Emergency Plan and Implementing Procedures. Please remove and **DISCARD** the old pages. Insert the attached, initial and date this routing sheet and return the completed routing sheet to ***Cathy Izyk in the Emergency Planning Department within 15 days.*** If this transmittal is not returned within 15 days, your name will be removed from the controlled list.

PLEASE INSERT THE DOCUMENTS LISTED BELOW!

VOLUME 1 Update List Dated N/A			
DOCUMENT	PAGES	REV. #	INITIALS/DATE
	N/A		

VOLUME 2 Update List Dated N/A			
DOCUMENT	PAGES	REV. #	INITIALS/DATE
	N/A		

VOLUME 3 Update List Dated March 16, 2000			
DOCUMENT	PAGES	REV. #	INITIALS/DATE
SAP-4	REPLACE ALL	8	
SAP-10	REPLACE ALL	8	

A045

EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 3
UPDATE LIST

CONTROLLED COPY #334

Date of Issue: March 16, 2000

Procedure Number	Procedure Title	Revision Number	Date of Last Review	Use of Procedure
N/A	TABLE OF CONTENTS	REV. 23	12/98	N/A
EAP-26	PLANT DATA ACQUISITION SYSTEM ACCESS	REV. 11	02/98	Informational
EAP-27	ESTIMATION OF POPULATION DOSE WITHIN 10 MILE EMERGENCY PLANNING ZONE	REV. 9	02/98	Informational
EAP-28	EMERGENCY RESPONSE DATA SYSTEM (ERDS) ACTIVATION	REV. 5	02/98	Reference
EAP-29	EOF VENTILATION ISOLATION DURING AN EMERGENCY	REV. 5	02/98	Informational
EAP-30	EMERGENCY TERMINATION AND TRANSITION TO RECOVERY*	REV. 0	12/98	Informational
EAP-31	RECOVERY MANAGER*	REV. 0	12/98	Informational
EAP-32	RECOVERY SUPPORT GROUP*	REV. 2	02/00	Informational
EAP-33	DEVELOPMENT OF A RECOVERY ACTION PLAN*	REV. 0	12/98	Informational
EAP-34	ACCEPTANCE OF ENVIRONMENTAL SAMPLES AT THE EOF/EL DURING AN EMERGENCY	REV. 3	02/98	Informational
EAP-35	EOF TLD ISSUANCE DURING AN EMERGENCY	REV. 6	02/98	Informational
EAP-36	ENVIRONMENTAL LABORATORY USE DURING AN EMERGENCY	REV. 4	02/98	Informational
EAP-37	SECURITY OF THE EOF AND EL DURING DRILLS, EXERCISES AND ACTUAL EVENTS	REV. 5	02/98	Informational
EAP-39	DELETED (02/95)			
EAP-40	DELETED (02/98)			
EAP-41	DELETED (12/85)			
EAP-42	OBTAINING METEOROLOGICAL DATA	REV. 13	04/99	Informational
EAP-43	EMERGENCY FACILITIES LONG TERM STAFFING	REV. 47	02/00	Informational
EAP-44	CORE DAMAGE ESTIMATION	REV. 4	02/98	Informational
EAP-45	EMERGENCY RESPONSE DATA SYSTEM (ERDS CONFIGURATION CONTROL PROGRAM	REV. 5	02/98	Informational
SAP-1	MAINTAINING EMERGENCY PREPAREDNESS	REV. 15	02/00	Informational
SAP-2	EMERGENCY EQUIPMENT INVENTORY	REV. 28	06/99	Reference
SAP-3	EMERGENCY COMMUNICATIONS TESTING	REV. 66	02/00	Reference

EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 3
UPDATE LIST

Date of Issue: March 16, 2000

Procedure Number	Procedure Title	Revision Number	Date of Last Review	Use of Procedure
SAP-4	NYS/OSWEGO COUNTY EMERGENCY PREPAREDNESS PHOTO IDENTIFICATION CARDS	REV. 8	03/00	Informational
SAP-5	DELETED (3/98)			
SAP-6	DRILL/EXERCISE CONDUCT	REV. 15	02/00	Informational
SAP-7	MONTHLY SURVEILLANCE PROCEDURE FOR ON-CALL EMPLOYEES	REV. 34	02/98	Informational
SAP-8	PROMPT NOTIFICATION SYSTEM FAILURE/SIREN SYSTEM FALSE ACTIVATION	REV. 10	02/98	Informational
SAP-9	DELETED (02/94)			
SAP-10	METEOROLOGICAL MONITORING SYSTEM SURVEILLANCE	REV. 8	03/00	Informational
SAP-11	EOF DOCUMENT CONTROL	REV. 9	07/99	Informational
SAP-13	EOF SECURITY AND FIRE ALARM SYSTEMS DURING NORMAL OPERATIONS	REV. 3	03/98	Informational
SAP-14	DELETED (02/95)			
SAP-15	DELETED (11/92)			
SAP-16	UTILIZING EPIC IDT TERMINALS FROM DESTINY SYSTEM	REV. 3	02/98	Informational
SAP-17	EMERGENCY RESPONSE DATA SYSTEM (ERDS) QUARTERLY TESTING	REV. 6	02/98	Continuous
SAP-19	SEVERE WEATHER	REV. 3	03/98	Informational
SAP-20	EMERGENCY PLAN ASSIGNMENTS	REV. 17	06/99	Informational
SAP-21	PLACEMENT, TESTING AND OPERATION OF WIRELESS TELEPHONE EQUIPMENT IN PLANT ENVIRONS	REV. 2	10/98	Informational
SAP-22	EMERGENCY PLANNING PROGRAM SELF ASSESSMENT	REV. 1	10/98	Informational

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NEW YORK STATE AND/OR OSWEGO COUNTY EMERGENCY PREPAREDNESS PHOTO IDENTIFICATION CARDS*

SAP-4
REVISION 8

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE N/A

APPROVED BY: _____ DATE 3/15/00
RESPONSIBLE PROCEDURE OWNER

EFFECTIVE DATE: March 22, 2000

FIRST ISSUE ☐ FULL REVISION ☐ LIMITED REVISION ☒

********** INFORMATIONAL USE **********	********** TSR **********
********** ADMINISTRATIVE **********	CONTROLLED COPY # 314

PERIODIC REVIEW DUE DATE: MARCH 2002

REVISION SUMMARY SHEET

REV. NO.	CHANGE AND REASON FOR CHANGE
8	• Updated the Oswego County Emergency Management Office photo ID card, • Added Drill and Walkthrough dates to attachment 1. • Editorial corrections in section 4.2.
7	• Section 4.1 deleted sentence stating that Personnel Dept. will collect the ID cards and will forward them to the E-Plan Coord. • Section 4.4 deleted sentence stating forms for original card will be returned to the E-Plan Dept.
6	• Reformat per AP-02.01, Rev. 5. • Editorial corrections to the following sections: 4.1, 4.2 and 5.0.

1.0 PURPOSE

This procedure describes the process to be followed for the issuance and control of New York State and/or Oswego County Emergency Preparedness Photo Identification Cards. The identification cards are to be used to provide a means of identification for Power Authority personnel and vendors who may be called upon to cross police or military barriers during an emergency at the JAFNPP.

2.0 REFERENCES

None

3.0 INITIATING EVENTS

None

4.0 PROCEDURE

4.1 Authorization and Control of ID Cards

ID cards will be issued after the completion of Attachment 1, Authorization for Issuance of the New York State and/or Oswego County Emergency Preparedness Photo Identification Card. Forms require the signature of a Training Department representative and the Emergency Planning Coordinator or designee before cards can be issued. The completed Form SAP-4.1 will be maintained by the Security Department.

4.2 Issuance of Identification Cards

Identification cards, as illustrated on Attachment 2, will be issued by the Security Department. Photographs will be taken, and cards produced upon security receiving Attachment 1. The Security Department will maintain the Identification System Control Cards, as illustrated on Attachment 3, along with the JAFNPP Photo Identification Badge Data Card. A Photo Identification Badge Data Card must be kept on file for each identification card issued.

4.3 Display of Identification Cards

Cards are issued to Emergency Team Members to allow emergency access through Military and/or Police Control Points throughout Oswego County during an emergency at the JAFNPP. Cards should be used only for this purpose.

4.4 **Replacement of Identification Cards**

If a photo identification card is lost or becomes unusable through damage or contamination, a replacement photo identification card shall be issued following the same procedure listed above.

5.0 **ATTACHMENTS**

1. AUTHORIZATION FOR ISSUANCE OF THE NEW YORK STATE AND/OR OSWEGO COUNTY EMERGENCY PREPAREDNESS PHOTO IDENTIFICATION CARD

2. NEW YORK STATE AND OSWEGO COUNTY PHOTO IDENTIFICATION CARDS

3. IDENTIFICATION SYSTEM CONTROL CARDS

ATTACHMENT 1 Page 1 of 1

AUTHORIZATION FOR ISSUANCE OF THE NEW YORK STATE AND/OR OSWEGO COUNTY EMERGENCY PREPAREDNESS PHOTO IDENTIFICATION CARD

Authorization Request for

NAME _____ SOCIAL SECURITY NO. _____

Date of Issuance _____ Identification # from Card New York State/Oswego County (circle one) _____

Expiration Date _____

The above designated individual has completed all pertinent Emergency Plan Training, and I request that an Identification Card be issued for his/her use.

Training Dept. Representative _____ Date Training Received _____

Training Dept. Representative _____ Date of Last Drill _____

Training Dept. Representative _____ Date of Walkthrough _____

The above individual is authorized to receive an Identification Card.

Emergency Planning Coordinator _____ Date _____

This form will be retained by the Security Department. A copy will be forwarded to the Training Manager.

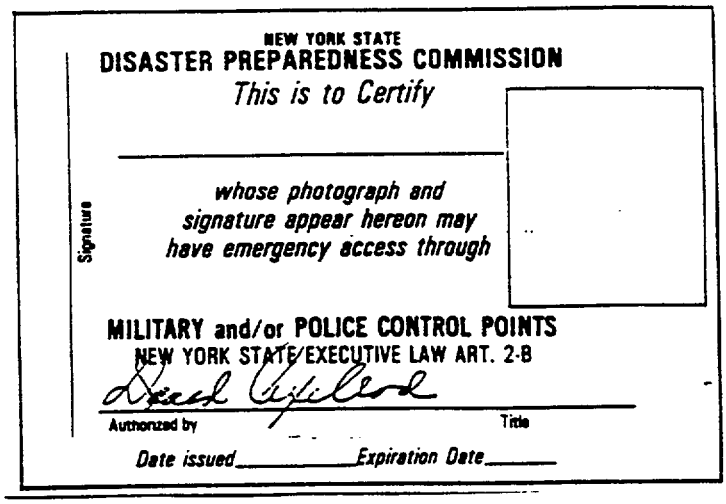
Date of Card Returned _____

ATTACHMENT 2 Page 1 of 1

NEW YORK STATE AND OSWEGO COUNTY PHOTO IDENTIFICATION CARDS

(Sample)

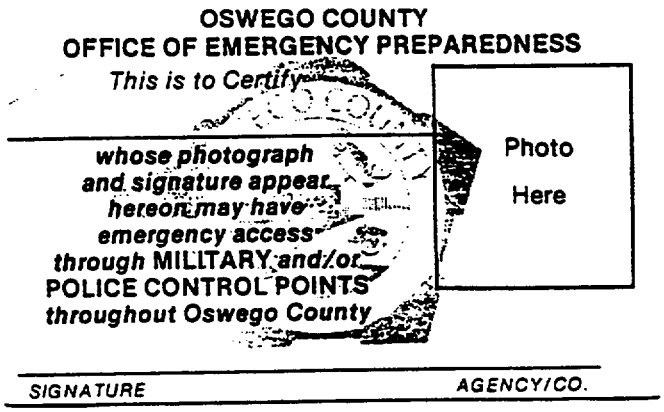
AUTHORIZED ACCESS CONTROL
IDENTIFICATION CARDS (Example)

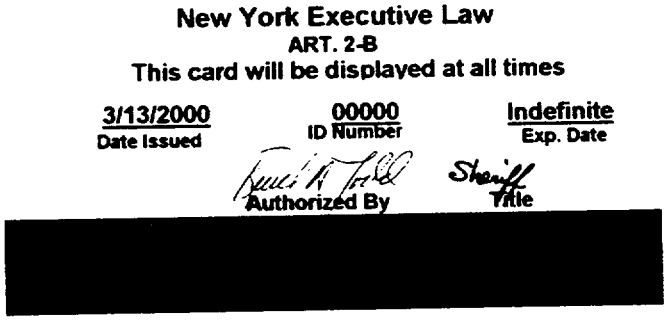


Identification Number _____

Black on White

AUTHORIZED ACCESS CONTROL
IDENTIFICATION CARDS (Example)





Black on Light Green

ATTACHMENT 3 Page 1 of 1

IDENTIFICATION SYSTEM CONTROL CARDS

(Samples)

NYS DISASTER PREPAREDNESS COMMISSION
IDENTIFICATION SYSTEM CONTROL CARD

Name _____ _____
(type or print) (identification card #)

Signature _____

Agency _____

Work Address _____

_____

_____

Work Phone # _____

Home Phone # _____

Picture

Oswego County Emergency Preparedness

Identification System Control Card

Name _____ _____
(type or print) (identification card #)

Signature _____

Agency _____

Work Address _____

_____

_____

Work Phone # _____

Home Phone # _____

Picture

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

METEOROLOGICAL MONITORING SYSTEM SURVEILLANCE*
SAP-10
REVISION 8

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE N/A

APPROVED BY: _____ DATE 3/03/00
RESPONSIBLE PROCEDURE OWNER

EFFECTIVE DATE: March 20, 2000

FIRST ISSUE ☐ FULL REVISION ☒ LIMITED REVISION ☐

********** INFORMATIONAL USE **********	********** TSR **********
********** ADMINISTRATIVE **********	CONTROLLED COPY # 34

PERIODIC REVIEW DUE DATE: January 2003

REVISION SUMMARY SHEET

REV. NO.	CHANGE AND REASON FOR CHANGE
8	• Deleted GM-SUPPORT SERVICES signature line from the cover page per AP-02.04. • Add astericks at the end of Sections 2.1.1 and 2.2.1 to show TSR procedure titles. • Reorganized the log on proceeder for the LA-100, Niagara Mohawk changed their computer ethics. • Editorial corrections in the following Sections: 4.8, 4.9, and 4.15.
7	• Step numbers on Att. 1 were corrected, incorrect abbreviations were deleted (Steps 4.12.2, 4.13.3). • Step numbers were corrected in text (Steps 4.11.4, 4.13.1, 4.14.1, 4.15.1, and 4.16) and directions to record information on Att. 1 was added to Steps 4.14.3 and 4.15.5.
6	• Remove requirement for JAF/NiMo system comparisons. • Reformat per AP-02.01, Rev. 5. • Removed requirement to analyze JAF system meteorological data. • Edited references for accuracy of Performance vs. Developmental. • Editorial changes to the following sections: 4.1, 4.4, 4.5, 4.6.2, 4.6.6, 4.11, 4.12.2 NOTE, 4.12.7, 4.12.8, 4.13.1, 4.13.2, 4.13.3, 4.13.4, 4.14.1, 4.14.2, 4.14.3 NOTE, 4.14.4, 4.14.5, 4.15.4, 4.15.5, 4.15.6, 4.16, 4.16.2, 4.16.4, 4.16.5, 4.16.6, 4.16.7, 4.16.8, 4.16.9, 4.19, 4.20.3, Attachment 1. • Changed surveillance to quarterly as Niagara Mohawk is the primary system used by EDAMS. • Changed level of use to "informational" in accordance with AP-02.04.

TABLE OF CONTENTS

1.0 PURPOSE

The purpose of this procedure is to provide for a quarterly operation and inspection check on the meteorological recorders located in the Control Room and Technical Support Center with computer output from the Niagara Mohawk Meteorological System. In addition, the strip chart paper shall be replaced as needed (at approximately two week intervals). This procedure also provides for a routine surveillance of the emergency dose assessment operability.

2.0 REFERENCES

2.1 Performance References

2.1.1 EAP-42, OBTAINING METEOROLOGICAL DATA*

2.2 Developmental References

2.2.1 IMP-17.10, METEOROLOGY STRIP CHART RECORDER ROUTINE MAINTENANCE AND CALIBRATION*

2.2.2 Operations and Maintenance Manual for the NMPC-NYPA Meteorological Data Acquisition System

2.2.3 Texas Instrument Inc. TIGRAPH 200 Graphic Display Installation and Operation Maintenance Manual, DOCNO: 6211809, Access #006211809

2.2.4 Regulatory Guide 1.23

3.0 INITIATING EVENTS

None

4.0 PROCEDURE

4.1 The Radiological and Environmental Services Manager shall assign a RES technician to perform this surveillance which includes:

4.1.1 Evaluate the quality and validity of the data being gathered.

4.1.2 Assess the status of the site instrumentation and equipment.

4.1.3 Document and distribute all significant information for use in historical analysis.

4.1.4 Determine if unscheduled maintenance is required.

4.2 Direct comparisons of each recorder channel are to be performed on a quarterly basis with computer output obtained the same day.

4.3 Data will be collected from recorders in both the Control Room and the Technical Support Center. Assure recorders are operating on EASTERN STANDARD TIME.

4.4 In addition, the purpose of this procedure is to assess and document the "usability" of the meteorological data on the recorders as well as the computer. Through this procedure, analysis of the data will yield pertinent information on whether data received is good, bad, suspect, or not available.

4.5 Attachment 1, Meteorological Monitoring System Surveillance, must be completed to document the comparison of data.

4.6 In addition, record any pertinent information concerning the recorder data as well as the computer data on the Attachment 1, Meteorological Monitoring System Surveillance. Record all occurrences at each recorder location which may be of significance to later analysis of the data or in the operational and maintenance history of any equipment used in this analysis. Record items such as the following:

4.6.1 Paper replacement, repairs and/or calibrations of all equipment.

4.6.2 A description of "NO" entries (indicating no data, or abnormal operation) on Attachment 1, Meteorological Monitoring System Surveillance and action taken, if any.

4.6.3 A description of conditions pertinent to "suspect" or "invalid" data.

4.6.4 A description of abnormal conditions.

4.6.5 A brief summary of other tasks performed.

4.6.6 Information which may be helpful or necessary in analyzing meteorological conditions and instrument performance (i.e. Met. tower instruments out of service due to high winds, lightning, etc.).

4.7 From the TSC, perform the following:

Obtain a meteorological computer printout from the Niagara Mohawk system. (The printout gives average hourly values from all towers for the past 24 hours.) To do this, perform the following steps:

NOTE: Should the LA-100 stall or otherwise lock up during operation, Ctrl-Y will reset the system.

4.7.1 Place switch on Black Box Modem labeled LA-100 to the NiMo position.

4.7.2 Press the "RETURN" key on the LA-100 terminal.

4.7.3 Output will be the Nine Mile Point/JAF Meterlogical Menu.

4.7.4 Utilize the username and password located on the terminal.

4.7.5 Enter one (1), for Emergency Despersion Report.

4.7.6 During printout, the "RETURN" key may have to be pressed several times in order to continue the printing process.

4.7.7 This will be followed by the Nine Mile Point/JAF Meterlogical menu.

4.8 Once the meteorological computer printouts have been obtained, become familiar with their contents and format. Note which digits correctly represent the parameter of interest and which numbers represent column dividers on the printout.

4.9 The printouts provide twenty-four "hour" averages; locate where each hour is represented (standard time) in the first column headed by "TIME AVG."

4.10 Choose the hour average on the printout that will be utilized for <u>all</u> data comparisons, preferably an average two to three hours earlier than the time of performing this procedure. Make sure there is sufficient valid data across the chosen row. Enter the date and averaged hour chosen on Attachment 1, noting the computer is on Eastern Standard Time (EST). Use this same hour average for both the TSC and Control Room surveillance.

NOTE: Make sure the same hour average contains valid data in the second half of the printout for the "JAF/Backup Tower Parameters" and "Inland Tower Parameters."

4.11 The following steps apply to each recorder inspected (start with recorder D, then G, J and K in the Control Room and then repeat for the Technical Support Center):

4.11.1 To remove the paper cartridge it is necessary to open the plastic recorder window by depressing the lock on the top of the recorder, press the RECORD/STANDBY switch in the upper left-hand corner to STANDBY (STB), and remove the paper cartridge by lifting the paper cartridge upward and outward.

4.11.2 To replace the strip chart paper, it is necessary to remove the paper supply roller (the roller may or may not have a spool of paper) from the paper cartridge by pressing outward on the supply retainer spring and then releasing the roller from the spring. If there is still paper on the supply roller, remove the paper and extract the cardboard tube.

NOTE: A diagram of this entire operation is located on the front of the cartridge assembly.

Lay the used paper tube and supply roller on a nearby surface for future use. Remove the take-up roller from the paper cartridge by slowly pushing outward on the take-up retainer spring and releasing the roller from the spring. Extract the spent paper and its cardboard roll from the take-up reel. Label the date, time, recorder letter and location, and measured parameters on the spent roll. This strip chart data shall be used for the completion of the surveillance and then attached to Attachment 1. Take the used cardboard tube that was on the supply roller and insert it into the take-up roller.

Install the take-up roller (now contains the cardboard tube) into the paper cartridge by slowly pressing the take-up spring retainer outward and inserting the roller into the proper location of the paper cartridge. Pick up the supply roller and insert the new roll of paper onto the roller (Paper Stock #96-170999). Install the supply roller (now contains a new roll of paper) into the paper cartridge by slowly pressing the supply retainer spring outward and inserting the roller in its proper location. Pull some paper from the supply spool and insert it between the paper cartridge spring locking pin bar and the black rubber platen. Insert the

4.11.2 (continued)

paper under the clear plastic paper tear-off window and over the front of the paper cartridge. Pull approximately eight inches of paper through the paper tear-off window. Position the paper between the take-up roller and the base of the cartridge. Attach a small piece of tape to the end of the paper and take-up tube. Remove the slack between the two paper spools by manually turning the take-up roller in the take-up direction.

4.11.3 To insert the paper cartridge, it is necessary to position the paper cartridge inward at the top of the recorder and push upward to insert the bottom hinge pin guides onto the recorder hinge pins. Push MENU selector to print status. The unit should be printing the status chart and self-test printouts. Put the STANDBY/RECORD switch in the RECORD position.

4.11.4 Initial, date and record the strip chart ID and location on the strip chart roll just removed. Inspect the paper for print quality. Record whether steps 4.11.1 through 4.11.4 have been performed (i.e. strip chart paper replaced).

4.11.5 Record whether date and time are being printed properly and the time corresponds to Eastern Standard Time.

NOTE: Recorder speed is set at one inch/hour, and time is documented on the strip chart once every two hours.

4.11.6 Inspect the scales utilized on the recorders to see if they are labeled A and B on recorders D, G and J. In the case of Recorder K, there are four scales (A, B, C and D) all of which are not readily visible.

4.11.7 Record any abnormal conditions on Attachment 1 under Remarks/Comments. If corrective action must be taken, record the problem and refer to the Maintenance and Calibration Procedures for the TIGRAPH 100 (F-IMP 17.10).

4.11.8 Locate the time frame on the strip chart that is being evaluated.

NOTE: It is important to understand the hour average being utilized on the computer printout is the average calculated for the previous 60 minutes and is represented in Eastern Standard Time. For example, the 60 minute average for 10:00 is the average from 9:00 to 10:00 EST.

4.12 The following steps facilitate comparison of Recorder "D" Data with the JAF computer output;

4.12.1 Average both wind speed and wind direction on the strip chart on Recorder D for the hour being scrutinized. Record the derived values on Attachment 1.

4.12.2 Locate and record the 200 ft. wind speed average for the hour being evaluated on the computer printout. Take care in recording the value (either a 1 or 2 digit number).

4.12.3 Locate and record the 200 ft. wind direction average for the hour on the computer printout using the same care.

4.12.4 Compare computer with derived values. Wind direction values should agree within ±10.0° of arc, and wind speed values should agree within ±3.0 MPH. If the values do not fall within the acceptable ranges, record a "NO" on Attachment 1 and note deviation.

4.13 The following steps facilitate comparison of Recorder "G" Data with JAF computer output;

4.13.1 Repeat 4.11.1 through 4.11.8, for recorder "G."

4.13.2 Average both wind speed and wind direction on the strip chart on Recorder G for the hour being evaluated. Record the derived values.

4.13.3 Locate and record the 90 ft. wind speed average for the hour chosen on the computer printout.

NOTE: Ensure same 60 minute timeframe data is being compared.

4.13.4 Locate and record 90 ft. wind direction average for the hour chosen on computer printout.

4.13.5 Compare computer printout with recorder derived values. Wind direction values should agree within ±10.0° of arc and wind speed values should agree within ±3.0 MPH. If the values do not fall within the stated ranges record a "NO" on Attachment 1 and note deviation.

4.14 The following steps facilitate comparison of Recorder "J" Data with JAF computer output;

4.14.1 Repeat 4.11.1 through 4.11.8, for Recorder "J."

4.14.2 Note the position of the toggle switch (located between Recorders J and K) for Recorder J. Record either the 30 or 100 ft. switch position on Attachment 1.

4.14.3 Average and record both wind speed and direction on the strip chart on Recorder J. Record derived valves on Attachment 1.

4.14.4 Based upon the toggle switch mode locate and record the corresponding wind speed on the computer printout: either the 30 ft. wind speed or the 100 ft. wind speed for the 60 minute average utilized for data comparison.

4.14.5 Based upon toggle switch position, locate and record corresponding wind direction values (either the 30 ft. value or the 100 ft. value.

4.14.6 Compare computer printout with recorder derived values. Wind direction values should agree within ±10.0° of arc and wind speed values should agree within ±3.0 MPH. If the values do not fall within the aforementioned ranges record a "NO" on Attachment 1 and note deviation.

4.15 The following steps facilitate comparison of Recorder "K" Data with JAF computer output;

4.15.1 Repeat 4.11.1 through 4.11.8, for Recorder "K."

4.15.2 Record the switch position and the respective measured parameter on Attachment 1.

4.15.3 Carefully inspect the strip chart for Recorder K. Note the various scales; all four scales will not be visible (unless the paper has been extracted for paper replacement). The Channel A scale represents the temperature scale, B represents the scale for the 30-100 ft. temperature difference, C represents the scale for the 30-200 ft. temperature difference, and D represents the scale for sigma theta (wind variation).

NOTE: The traces for each channel are labeled. Channels B and C scales are equivalent. Read the values directly.

4.15.4 When deriving and averaging each parameter, it may be difficult to compare the trace to the appropriate scale, under these conditions it is advised the paper cartridge from Recorder K be removed, followed by an inspection of the scales marked at an earlier time. To perform this, turn the RECORD/STANDBY switch in the upper left-hand corner of the recorder to STANDBY (STB). This prevents printhead damage. Remove the paper cartridge. Reverse the takeup roll so paper can be drawn out for inspection.

4.15.5 Locate all four scales (A-D) and carefully average each parameter for the hour chosen for evaluation. Record the temperature (Channel A), the 30-100 ft. temperature difference (Channel B), 30-200 ft. temperature difference (Channel C), and sigma theta for the appropriate switch position (Channel D) on Attachment 1.

4.15.6 Record the temperature, the temperature difference between 30 and 100 ft. and the temperature difference between 30 and 200 ft. on the printout for the hour chosen. When recording temperature difference, record to the nearest tenth.

4.15.7 Note switch position for Recorder K (A, B, C or D). This switch determines which sigma theta (or wind direction variation) is being measured: "A" denotes the 200 ft. wind direction variation, "B" denotes the 100 ft. wind direction variation, "C" denotes the 30 ft. wind variation and "D" represents the JAF backup wind direction variation at 90 ft.

4.15.8 Based upon the switch mode, locate the appropriate wind direction variation from the computer printout for the 60 minute average being utilized for the data comparison. Record the value to the nearest tenth.

4.15.9 Compare computer printerout with recorder derived values; temperature values should agree within ±2.0°F. Both temperature difference values should agree with their respective computer values within ±1.0°F. Sigma theta (or wind direction variation) values should agree within ±2° of arc. If any of the values do not agree, record a "NO" on Attachment 1 and note deviation.

4.16 Repeat 4.11 through 4.15 for the recorders in the Technical Support Center.

4.17 Attachment 1 shall be completed for the Control Room recorders and for the Technical Support Center recorders and submitted for inspection and signature to the Emergency Planning Coordinator or designee.

4.18 Obtain an Emergency Meteorological Report using EDAMS (see EAP-42, Obtaining Meteorological Data).

4.18.1 Ensure time and date are correct (time should be within 15 minutes of real time).

4.18.2 Obtain a printout of the "Last 15 Minute Emergency Meteorological Report Data" and attach it to the surveillance.

5.0 **ATTACHMENTS**

1. METEOROLOGICAL MONITORING SYSTEM SURVEILLANCE

METEOROLOGICAL MONITORING SYSTEM SURVEILLANCE

Location: Technical Support Center / Control Room (circle one)

(Step 4.11) Date and hour chosen for comparison _____ EST (am/pm)

RECORDER D

(Step 4.11.4) Strip Chart Paper Replaced YES / NO (circle one)

(Step 4.11.5) Date and Time Proper YES / NO (circle one)

(Step 4.12.2) 200 ft. Wind Speed _____

(Step 4.12.3) 200 ft. Wind Direction _____

(Step 4.12.1) Recorder D Wind Speed _____

(Step 4.12.1) Recorder D Wind Direction _____

(Step 4.12.4) Agreement Wind Speed YES / NO (circle one)

(Step 4.12.4) Agreement Wind Direction YES / NO (circle one)

Recorder Returned to Normal YES / NO (circle one)

Remarks/Comments _____

_____

RECORDER G

(Step 4.11.4) Strip Chart Paper Replaced YES / NO (circle one)

(Step 4.11.5) Date and Time Proper YES / NO (circle one)

(Step 4.13.3) 90 ft. Wind Speed _____

(Step 4.13.4) 90 ft. Wind Direction _____

(Step 4.13.2) Recorder G Wind Speed _____

(Step 4.13.2) Recorder G Wind Direction _____

(Step 4.13.5) Agreement Wind Speed YES / NO (circle one)

(Step 4.13.5) Agreement Wind Direction YES / NO (circle one)

Recorder Returned to Normal YES / NO (circle one)

Remarks/Comments _____

_____

METEOROLOGICAL MONITORING SYSTEM SURVEILLANCE

Location: Technical Support Center / Control Room (circle one)

(Step 4.11) Date & hour chosen for comparison _____ EST (am/pm)

RECORDER J

(Step 4.11.4) Strip Chart Paper Replaced YES / NO (circle one)

(Step 4.11.5) Date and Time Proper YES / NO (circle one)

(Step 4.14.2) Toggle Position _____ ft.

(Step 4.14.4) Wind Speed at _____ ft. _____

(Step 4.14.5) Wind Direction at _____ ft. _____

(Step 4.14.3) Recorder J Wind Speed _____

(Step 4.14.3) Recorder J Wind Direction _____

(Step 4.14.6) Agreement Wind Speed YES / NO (circle one)

(Step 4.14.6) Agreement Wind Direction YES / NO (circle one)

Recorder Returned to Normal YES / NO (circle one)

Remarks/Comments _____

RECORDER K

(Step 4.11.4) Strip Chart Paper Replaced YES / NO (circle one)

(Step 4.11.5) Date and Time Proper YES / NO (circle one)

(Step 4.15.6) Temperature _____ (Step 4.15.5) Recorder K Temperature _____

(Step 4.15.6) Temp. Diff. _____ (Step 4.15.5) Recorder K 30-100 ft. Temp. Diff. ____

(Step 4.15.6) Temp. Diff. _____ (Step 4.15.5) Recorder K 30-200 ft. Temp. Diff. ____

(Step 4.15.2) Switch Position _____ (Step 4.15.7) Elev._____

(Step 4.15.8) Sigma Theta _____ (Step 4.15.7) Recorder K Sigma Theta _____

(Step 4.15.9) Agreement Temp. YES/NO (Step 4.15.9) Agreement 30-200 ft. Temp. Diff. YES/NO

(Step 4.15.9) Agreement 30-100 ft. Temp. Diff. Y/N (Step 4.15.9) Agreement Wind Var. Y/N

Recorder Returned to Normal YES / NO (circle one)

Remarks/Comments _____

_____

Date: _____ Completed by: _____

Date: _____ Reviewed by: _____