Lewis Sumner
Vice President
Hatch Project Support

Southern Nuclear Operating Company, Inc.
40 Inverness Parkway
Post Office Box 1295
Birmingham, Alabama 35201

Tel 205.992.7279
Fax 205.992.0341

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U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Edwin I. Hatch Nuclear Plant
Emergency Implementing Procedure Revision

Ladies and Gentlemen:

In accordance with 10 CFR 50, Appendix E, Section V, Southern Nuclear Operating Company hereby submits the following revision to the Plant Hatch Emergency Implementing Procedures (EIPs):

EIP No.	Revision	Effective Date	Comments
73EP-EIP-018-0S	6	8/10/2000	Administrative change

By copy of this letter, Mr. L. A. Reyes, NRC Region II Administrator, will receive two copies of the revised procedure.

Should you have any questions, please contact this office.

Respectfully submitted,

Lewis Sumner

H. L. Sumner, Jr.

SRP/sp

Enclosure: 73EP-EIP-018-0S, Prompt Offsite Dose Assessment

cc: Southern Nuclear Operating Company
Mr. P. H. Wells, Nuclear Plant General Manager
SNC Document Management (R-Type A02.001)

U.S. Nuclear Regulatory Commission, Washington, D.C.
Mr. L. N. Olshan, Project Manager - Hatch

U.S. Nuclear Regulatory Commission, Region II
Mr. L. A. Reyes, Regional Administrator
Mr. J. T. Munday, Senior Resident Inspector - Hatch

A045

1.0 OBJECTIVE

This procedure provides the initial method used to determine the dose rate at the site boundary to assist in Emergency Classifications based on gaseous effluent. This procedure also provides the projection of offsite TEDE and CDE doses to assist in the initial protective action recommendations (PARs).

2.0 APPLICABILITY

This procedure is applicable to initial determinations of offsite dose based upon estimated noble gas release from the Main Stack and Unit 1 and Unit 2 Reactor Building Vents. This procedure is performed as required.

3.0 REFERENCES

3.1 10AC-MGR-006-0S, Hatch Emergency Plan

3.2 20AC-ADM-002-0S,Quality Assurance Records Administration

3.3 73EP-EIP-001-0S, Emergency Classification and Initial Actions

3.4 73EP-EIP-005-0S, On-Shift Operations Personnel Emergency Duties

3.5 73EP-EIP-054-0S, Protective Action Recommendations to State and Local Authorities

3.6 62CI-OPS-005-0S, Accident Sampling of the Main Stack and Reactor Building Effluents using the KAMAN System

3.7 3IEO-EOP-013-1/2S, Primary Containment Control

3.8 73EP-EIP-015-0S, Offsite Dose Assessment

3.9 Forms:

- TRN-0052 MIDAS Input Data Acquisition
- TRN-0146 Prompt Offsite Dose Assessment Flowchart

4.0 REQUIREMENTS

4.1 PERSONNEL REQUIREMENTS

4.1.l Emergency response personnel who have been trained in and are responsible for Emergency Classification and offsite dose assessment are required to perform this procedure.

4.1.2 The number and qualifications of personnel performing this procedure during an emergency will be determined by the SOS/ED.

4.2 MATERIAL AND EQUIPMENT

4.2.l Dose Rate Instrument

4.2.2 Key for Main Stack Door MS-2

4.2.3 Meteorological Information and Dispersion Assessment System (MIDAS)

The system requirements for the MIDAS dose assessment program are:

Component	Minimum system	Recommended system
CPU	486 DX	586 DX (Pentium)
Speed	50 MHz	133MHZ (or higher)
RAM	16 MB (greater speed is achieved through use of a RAM disk (8 MB)	32 MB
Hard Disk	240 MB	480 MB
Floppy drive	1.44 MB	1.44 MB
Interface	Mouse	Mouse
Monitor	VGA	VGA
Ports	1 parallel, 2 Serial	1 parallel, 2 serial
Keyboard	101	101
Operating system	DOS 5.0	DOS 6.0 or higher
Printer	HP DeskJet 550 C	HP DeskJet 550 C

4.3 SPECIAL REQUIREMENTS

Obtain a Radiation Work Permit (RWP) or a Health Physics escort when entering the Main Stack Operating Deck.

5.0 PRECAUTIONS / LIMITATIONS

5.1 PRECAUTIONS

5.1.l Significant radiation hazards may be encountered during entries to obtain local instrument readings. Maintain occupational exposure As Low As Reasonably Achievable (ALARA) in the performance of assigned duties.

5.1.2 IF any of the following Annunciators are indicated on annunciator panels, INFORM the Chemistry department PRIOR to requesting the Chemistry Department to obtain a grab sample if a grab sample is required;

1H11-P650-2

MAIN STACK EFFLUENT ANY COLLECTOR RADN LEVEL MAXIMUM
MAIN STACK EFFLUENT ALL COLLECTORS RADN LEVEL MAXIMUM
RB VENT EFFL ANY COLLECTOR RADN LEVEL MAX
RB VENT EFFL ALL COLLECTORS RADN LEVEL MAX

2H11-P650-2

RB VENT EFFL ANY COLLECTOR RADN LEVEL MAX
RB VENT EFFL ALL COLLECTORS RADN LEVEL MAX

5.2 LIMITATIONS

5.2.1 This procedure can NOT be used to downgrade the severity of an emergency classification.

5.2.2 This procedure is based upon using the Meteorological Information and Dispersion Assessment System (MIDAS) for calculating indications of offsite dose and dose rates. MIDAS utilizes data from both radiological and meteorological plant instrumentation. Readings may be obtained from SPDS, control room monitors, and/or locally at the instruments. Information is required for all three release paths (Main Stack, U1 Rx Bldg. Vent, and U2 Rx Bldg. Vent).

> NOTE
>
> Values obtained from MIDAS for the purpose of Protective Action Recommendations are based on the avoided dose concept.

5.2.3 For the purpose of Protective Action Recommendations (PARs), the TEDE and CDE values for 1 mile (Site Boundary), 2 miles, 5 miles, and 10 miles from the printed ENN Worksheet provided by MIDAS may be utilized.

6.0 PREREQUISITES

6.1 Contact Health Physics prior to making entries to obtain local radiation readings, OR entry into the main stack for grab samples.

6.2 The annunciators outlined in white in the Main Control Room are indications of a potential release condition; the following annunciators may indicate a radioactive release.

6.2.1 Main Stack Annunciators

Annunciator	Panel Number
OFF GAS VENT RADIATION HIGH-HIGH	1H11-P601-4
OFF GAS VENT RADIATION HIGH	1H11-P601-4
OFF GAS VENT RADIATION DNSC/INOP	1H11-P601-4
OFF GAS VENT SAMPLE FLOW HIGH/LOW	1H11-P601-4

6.2.2 Unit I Reactor Building Vent Stack annunciators

Annunciator	Panel Number
RX BLDG VENT SAMPLE FLOW HIGH/LOW	1H11-P601-4
REFUELING FLOOR VENT EXHAUST RADIATION HI-HI	1H11-P601-4
RX BLDG STACK RADN MON HIGH-HIGH	1H11-P603-2
RX BLDG STACK RADN MON HI	1H11-P603-2

6.2.3 Unit 2 Reactor Building Vent Stack Annunciators

Annunciator	Panel Number
RX BLDG VENT EXHAUST RADIATION HI-HI	2H11-P601-2
RX BLDG VENT EXHAUST RADIATION HIGH	2H11-P601-2
RX BLDG VT MON HIGH/LOW FLOW DOWNSCALE/INOP	2H11-P601-4
REFUELING FLOOR VENT EXHAUST RADIATION HI-HI	2H11-P601-4

REFERENCE

7.0 PROCEDURE

7.1 Upon indication of a potential release condition as indicated by step 6.2, and activation of this procedure, perform the following steps or utilize the job aid in TRN-0146, Prompt Offsite Dose Assessment Flowchart.

7.2 SYSTEM START-UP

> NOTE
>
> General instructions for the use of the MIDAS Code are found in Attachment 1, Generic Screen Guidelines for MIDAS.

> NOTE
>
> The MIDAS Program files are loaded on the harddrive of the computer located at the STA's desk.

7.2.1 With the computer off, obtain the MIDAS startup disk from the Emergency Director notebook and insert the MIDAS startup disk in the "A" drive of the computer containing the MIDAS program files.

7.2.2 Turn the computer on.

7.2.3 The computer will normally automatically "boot" into the MIDAS subdirectory and start the program.

7.2.4 WHEN prompted by the computer, enter the current date (mm-dd-yy) and time (00:00:00.00 a/p). IF the current date and time are correct, press "Enter".

7.3 DATA ACQUISITION

7.3.1 Instruments in alarm will be handled in accordance with the applicable annunciator response procedures.

7.3.2 IF any annunciator or indication is determined to be "inoperable" or unavailable, THEN increased operator awareness will be required to determine if an effluent release is ongoing.

7.3.3 The MIDAS code requires the input of meteorological and radiological data. The data required is listed in TRN-0052, MIDAS Data Input Acquisition. TRN-0052 may be used to gather data for input. Data is to be gathered in accordance with the following steps.

7.3.3.1 Record readings from the appropriate meteorological instrumentation. Appropriate meteorological instrumentation are listed in TRN-0052 Page 1 of 3. Record only valid readings. IF the primary meteorological instrumentation listed is unavailable, THEN use TRN-0052 page 2 of 3, Alternate Meteorological Instrument Designation for Dose Assessment Use, to determine which alternate meteorological instrumentation can be utilized.

7.3.3.2 Record readings from the appropriate effluent monitors. Appropriate effluent monitors are listed in TRN-0052 Page 3 of 3, Radiological Data Entry. Record only valid readings as indicated below. Record EITHER Normal Range OR Accident Range Effluent Monitor (KAMAN) value and the flow associated with that value. Do NOT record or enter data for both monitors or both flows for each release point. MIDAS will sum the release and significantly overestimate the dose rate and projected dose output.

7.3.3.3 IF it is determined that the normal range effluent monitor is offscale high AND the accident range instrumentation (KAMAN) does not function properly for the Main Stack, Unit 1 Rx Bldg. or Unit 2 Rx Bldg. vent monitors, THEN turn over dose assessment responsibilities to the TSC.

7.3.3.3.1 IF the TSC is not activated, contact the on-shift HP/Chemistry foreman and instruct him to initiate dose assessment activities on the dose assessment computer in the TSC.

7.3.3.4 IF there is a difference between the A and B channel readings for the Unit 1 Rx Bldg. Stack Vent monitor (1D11-R619 A/B), Unit 2 Rx Bldg. Stack Vent Monitors (2D11-R619 A/B) OR Main Stack monitor readings (1D11-R600 A/B), THEN use the most conservative (higher) reading for input into MIDAS.

7.3.3.5. A Hi-Hi Alarm contact from 1D11-RIS-K600 A/B (34AR-601-412-1S) will trip the normal range effluent monitor 1D11-P001 and start both the Accident Range Effluent Monitor 1D11-P007 (KAMAN) and the Wide Range Recorder 1D11-R631 (BLUE Pen). Normal Kaman Operation is indicated on SPDS primary screen by vent stack window changing red with a value showing.

7.3.3.6 A Hi- Hi Alarm contact from 1D11-RIS-K619 A/B (34AR-603-216-1S) will trip the normal range effluent monitor 1D11-P002 and start both the Accident range effluent monitor 1D11-P601 (KAMAN) and the Wide range Recorder 1D11-R631 (RED Pen). Normal Kaman Operation is indicated on SPDS primary screen by vent stack window changing red with a value showing.

7.3.3.7. A Hi- Hi Alarm contact from 2D11-RIS-K636 A/B (34AR-601-229-2S) will trip the normal range effluent monitor 2D11-P002 and start both the Accident range effluent monitor 2D11-P601 (KAMAN) and the Wide range Recorder 2D11-R631 (RED Pen). Normal Kaman Operation is indicated on SPDS primary screen by vent stack window changing red with a value showing.

7.3.3.8 IF the Control Room flow instruments are inoperable or unreliable; THEN the default flow values listed on TRN-0052, page 3 of 3 may be utilized for input.

7.4 DETERMINATION OF OFFSITE DOSE RATES AND DOSE PROJECTIONS

7.4.1 From the SITE SELECTION menu screen, select "PLANT HATCH". The selection will illuminate.

7.4.2 Select "CONFIRM" to continue.

7.4.3 From the FUNCTION SELECTION menu screen, select "ACCIDENT DOSE CALCULATIONS". The selection will illuminate.

7.4.4 Select "CONFIRM" to continue.

7.4.5 The SCENARIO DATA TABLE CONTROL menu screen will appear. You may perform an initial projection or an update projection.

7.4.5.1 To perform an initial projection, select “START NEW SCENARIO” to initialize the dose projection spreadsheets. A warning will appear to confirm that you wish to initialize. Select “CONFIRM” to continue.

7.4.5.2 To perform an update projection, select “CURRENT SCENARIO EDIT” to perform an update calculation.

7.4.6 The METEOROLOGICAL DATA spreadsheet will appear. Enter meteorological data from TRN-0052 as required by the spreadsheet at the current time. The current time frame will be illuminated. If performing an update, data previously entered will be displayed.

7.4.7 Depress the “X” key to save the data on the spreadsheet and exit to the remainder of the program.

> CAUTION
>
> RELEASE POINT MONITOR DATA MAY BE DISPLAYED ON SPDS IN UNITS OTHER THAN THOSE REQUIRED BY MIDAS. IF USING SPDS FOR DATA ACQUISITION, CHECK ALL UNITS TO ENSURE THAT THE UNITS MATCH THOSE REQUIRED BY MIDAS. SPDS MAY DISPLAY THE SAME MONITOR ON DIFFERENT SCREENS IN THE APPROPRIATE UNIT.

7.4.8 The GASEOUS VENT AND FLOW spreadsheet will appear. Enter the data from TRN-0052 as required by the spreadsheet at the current time. The current time frame will be illuminated. If performing an update, data previously entered will be displayed.

> CAUTION
>
> THE GASEOUS VENT AND FLOW SPREADSHEET CONTAINS (12) DATA COLUMNS, OF WHICH (8) DATA COLUMNS ARE DISPLAYED. THE ADDITIONAL (4) DATA COLUMNS CAN BE DISPLAYED BY USING THE "RIGHT" ARROW KEY ONCE DATA HAS BEEN ENTERED IN THE 8 DATA COLUMNS SHOWN ON THE INITIAL SCREEN. FAILURE TO ENTER DATA FOR EACH RELEASE POINT WILL RESULT IN A POTENTIAL UNDERESTIMATE OF THE OFFSITE DOSE RATE AND PROJECTED DOSE ESTIMATES.

7.4.9 Depress the "X" key to save the data on the spreadsheet and exit to the remainder of the program.

> CAUTION
>
> IF THE REMAINING DURATION OF THE RELEASE IS UNKNOWN, A DEFAULT REMAINING DURATION OF 240 MINUTES (4 HOURS) WILL BE UTILIZED.

7.4.10 The RELEASE TIMING menu screen will appear. The "DURATION" field will display the total number of minutes from the onset of the release to the current time plus the time period specified in "REMAINING DURATION". The "REMAINING DURATION" field will display the default release duration of 240 minutes. Changes made to the "REMAINING DURATION" field will be automatically reflected in the "DURATION" field.

7.4.10.1 IF the default "REMAINING DURATION" of 240 minutes is acceptable, select "CONFIRM" to continue.

7.4.10.2 IF the "REMAINING DURATION" is determined to be some time period other than 240 minutes, THEN enter the release duration time in minutes and select "CONFIRM" to continue. IF a release time other than 240 minutes is used, THEN ensure this information is provided to the TSC or EOF Dose Assessment staff when a transfer of Dose Assessment responsibility occurs.

NOTE

MIDAS will perform the required calculations. A plot of the Total Effective Dose Equivalent (TEDE) Rate will be displayed on the screen. The peak TEDE rate used for release determination and classification is shown on the right center portion of the screen. A working copy of the Emergency Notification Form will be delivered to the attached printer. Line 13 of the working copy of the ENN form contains TEDE and Thyroid CDE values for the site boundary, 2, 5, and 10 mile distances.

7.4.11 MIDAS will display a plot of the Total Effective Dose Equivalent (TEDE) rate based on a .25 hour (15 minute) projection. The display gives an estimated peak TEDE Dose Rate value at or beyond the site boundary. The display also includes the direction and distance for this value.

7.4.11.1 The current calculated daily average site dose rate is ≈ E-03 mR/hr. IF the peak TEDE dose rate (mR/hr) value is an order of magnitude (10 times) higher than this value ≈ E-02 mR/hr AND an emergency has been declared THEN notify the Emergency Director that a radioactive release is in progress.

7.4.11.2 IF the peak TEDE Dose Rate value exceeds 0.057 mR/hr (5.7 E-02 mR/hr), THEN notify the Emergency Director for possible emergency classification declaration or upgrade AND notify the affected Unit Shift Supervisor for possible EOP Actions.

7.4.12 MIDAS will print a working copy of the ENN Form. The values listed on line 13 of the working copy of the ENN Form may be utilized for the purpose of making Protective Action Recommendations (PARs) to state and local authorities. IF required, PARs will be made in accordance with 73EP-EIP-054-0S, Protective Action Recommendations.

7.4.13 Printouts of the working copy of the Emergency Notification Form can be obtained if it does not print properly or additional copies are needed. First, attempt to correct the problem with the printer, if appropriate, then follow the steps below.

7.4.13.1 Select "CONTINUE" from the TEDE RATE PLOT Screen, then select "NEXT REPORT", then "MORE REPORTS" which will display the available report selections. Select the option "SEND STATE REPORT TO PRINTER", then select "CONFIRM". This will send the working copy of the ENN Form to the printer.

7.4.14 Report the TEDE and Thyroid CDE values from line 13 of the working copy of the ENN Form to the Emergency Director. IF this report is not available, the information may be obtained from the TEDE 4-day report and Thyroid CDE options under more reports. Values will be based on the 4-hour projection period.

NOTE

You may elect to continue your evaluation of this projection or exit to perform an update projection.

CAUTION

CHOICES AVAILABLE UNDER THE "MORE REPORTS" MENU SCREEN WITH THE EXCEPTION OF EXIT ARE BEYOND THE SCOPE OF THIS PROCEDURE. USE OF THESE OPTIONS FOR THE PERFORMANCE OF PROMPT OFFSITE DOSE ASSESSMENT IS NOT REQUIRED.

7.4.15 To exit, select "CONTINUE" from the TEDE RATE PLOT Screen, then select "NEXT REPORT", then "MORE REPORTS" which will display the available report selections. From this screen select "EXIT" which requires a double "click" with the mouse. This will return you to the FUNCTION SELECTION menu screen.

7.5 IF the dose assessment capabilities are functional from the TSC or EOF, THEN turnover Offsite Dose Assessment to either facility and proceed to subsection 7.7. TSC or EOF activation is NOT required prior to turnover of dose assessment activities.

7.6 IF the dose assessment capabilities are NOT functional from the TSC or EOF, THEN continue to monitor the gaseous effluent release parameters until instructed to terminate dose assessment activities by the SOS/ED. IF any of these parameters begin to increase, THEN perform additional prompt offsite dose assessment calculation(s) as follows:

7.6.1 IF not already at the “Function Selection” menu screen, return to the “Function Selection” menu screen.

7.6.2 Perform additional dose projections in accordance with subsection 7.3, Data Acquisition and 7.4, Determination of Offsite Dose Rates and Dose Projections.

7.7 REVIEWS AND RECORDS

Forward data on TRN-0052 to the Emergency Director for review. Records generated during actual emergencies will be maintained in accordance with 20AC-ADM-002-0S, Quality Assurance Records Administration.

This set of general instructions applies to all methods of dose projection utilizing MIDAS.

GENERIC SCREEN GUIDELINES

- MIDAS utilizes a "point and click" feature for all menu applications.
- Menu choices will illuminate when selected with the mouse. Invalid choices will not illuminate.
- Menu choices backlit in red indicate important selectors.
- All menu selections must be "confirmed". This is accomplished by selecting the "CONFIRM" option on the screen with the mouse.
- The NUMPAD is used to enter data which may be required as a result of selecting a box on the screen.
- "EXIT" is used to stop processing and return to the function menu. A double click is required.
- "CONFIRM" is used to save selections and display the next screen.
- "RESET" will clear box selections if "clicked" once and will reset the user to the previous screen(s) if "clicked" twice. On the first screen (Accident Run Menu) reset has no effect.
- Selecting "CONFIRM" before selecting the required boxes will result in a beep and no changes will be made.

NUMPAD DATA ENTRY

- IF the NUMPAD was selected by mistake, select "EN" to return to the main screen.
- IF the entry is NOT complete or NOT valid, selecting "EN" will NOT be accepted.
- To correct an erroneous entry into the NUMPAD, select "EN" with the display box empty.
- IF reset is selected after a NUMPAD entry has been completed ("EN" is selected), THEN all of the data for every screen box will be cleared.
- To clear data for any one screen box, select the box and redefine the data value (do not use reset since all boxes will be cleared).
- Plus signs are not necessary but minus signs are required for negative numbers including exponential notation (e.g., 1E-6).
- On the meteorological screen, stability class may be entered as a letter between A and G. In this case the NUMPAD will contain each letter.
- Red warning message will appear when there is a problem with data that makes it impossible to continue the calculations. Selecting continue will allow you to correct the erroneous data. Selecting "EXIT" will return you to the menu selection screen.

METEOROLOGICAL DATA ENTRY

MIDAS SCREEN LABELS	10M WIND SPEED	100M WIND SPEED	10M WIND DIRECTION*	100M WIND DIRECTION*	AMBIENT TEMP (°F)(10M)	15 MIN AVG. DIFFERENTIAL TEMPERATURE (ΔT) 60M-10M	15 MIN AVG. DIFFERENTIAL TEMPERATURE (ΔT) 100M-10M	RAINFALL (15 MIN. AVG.)
MPL#	1Y33-R601 OR 1Y33-R604	1Y33-R603 OR 1Y33-R604	1Y33-R601 OR 1Y33-R604	1Y33-R603 OR 1Y33-R604	1Y33-R607 OR 1Y33-R610	1Y33-R606 OR 1Y33-R610	1Y33-R606 OR 1Y33-R610	1Y33-R608
TIME								

Readings may be taken from SPDS, Panel 1H11-P690 (Primary Tower), OR 1H11-P689 (Backup Tower).

Stability Class (ΔT), wind speed, wind direction and rainfall readings taken directly from the panel must be averaged over 15 minutes.

IF the indicated instrument is unavailable use the following table, TRN-0052 page 2 of 3, to identify the appropriate alternate instrument.

*For wind direction greater than 360 degrees, subtract 360.

Alternate Meteorological Instrument Designation for Dose Assessment Use

Main Stack Elevated Release (Meteorological Data Entry Form - 100 M data)										
	100M Wind Speed[5] 15 Min. Avg. MPH[5]		100M Wind Direction[5] 15 Min. Avg. ° From[5]		100M-10M Differential Temp. 15 Min. Avg. ΔT ° F[5]		10M Ambient Temperature 15 Min. Avg. °F		Rainfall 15 Min. Avg.	
	Value	MPL #	Value	MPL #	Value	MPL #	Value	MPL #	Value	MPL #
Primary	100 M	Y33-R603	100 M	Y33-R603	100M -10M	Y33-R606	10 M	Y33-R607	10 M	Y33-R608
1st Alternate	60 M	Y33-R602	60 M	Y33-R602	60M - 10M	Y33-R606	10 M[1]	Y33-R610	Estimate[3]	
2nd Alternate	23M[1]	Y33-R604	23 M[1]	Y33-R604	45M-10M[1]	Y33-R610	Estimate[2]		N/A	
3rd Alternate	10 M	Y33-R601	10 M	Y33-R601	σθ[4] 100M or 60M	Y33-R605	N/A		N/A	

Reactor Building Vent Ground Level Release (Meteorological Data Entry Form - 10 M data)										
	10M Wind Speed[5] 15 Min. Avg. mph[5]		10M Wind Direction[5] 15 Min. Avg. ° From[5]		60M-10M Differential Temp. 15 Min. Avg. ΔT ° F[5]		10M Ambient Temperature 15 Min. Avg. °F		Rainfall 15 Min. Avg.	
	Value	MPL #	Value	MPL #	Value	MPL #	Value	MPL #	Value	MPL #
Primary	10 M	Y33-R601	10 M	Y33-R601	60M-10M	Y33-R606	10 M	Y33-R607	10 M	Y33-R608
1st Alternate	23 M[1]	Y33-R604	23 M[1]	Y33-R604	45M-10M[1]	Y33-R610	10 M[1]	Y33-R610	Estimate[3]	
2nd Alternate	60 M	Y33-R602	60 M	Y33-R602	100M-10M	Y33-R606	Estimate[2]		N/A	
3rd Alternate	100 M	Y33-R603	100 M	Y33-R603	σθ[4] 10M or 23M	Y33-R605 Y33-R609[1]	N/A		N/A	

1. These readings are obtained from the Back-up Meteorological Tower.
2. Since this value has minimal impact on the dispersion calculation an estimated ambient Temperature is acceptable.
3. Input these letters as estimates for rainfall based on a visual observation, L-Light Rain, M-Medium Rain, or H-Heavy Rain. IF no information is available use 0 in./15 min. rainfall.
4. IF the temperature values are unavailable for the Delta T readings, use the Sigma Theta (σθ) (variation in wind direction (in degrees)) for the Stability Class -

≥ 22.5° = A, 22.4° - 17.5° = B, 17.4° - 12.5° = C, 12.4° - 7.5° = D, 7.4° - 3.8° = E, 3.7° - 2.1° = F, > 2.1° = G. Input the Stability Class "Letter" into MIDAS.
5. IF all instruments in this data field are inoperable, call the National Weather Service (see Emergency Call List Section XI Offsite Agencies Phone List) and ask for the information from the nearest available source.

RADIOLOGICAL DATA ENTRY

NOTE

- Record only normal range data for associated release path IF KAMAN is NOT running. IF KAMAN is running, record only KAMAN data for associated release path.
- Entering data for the KAMAN monitors when the KAMAN system is NOT operating will result in inaccurate offsite dose estimates.
- Refer to 73EP-EIP-018-0S,section 7.3.3.3 for action to take IF the normal range instrumentation for any release path is offscale high and KAMAN is NOT operating properly.

	MAIN STACK RELEASE				U1 RX BLDG.VENT RELEASE				U2 RX BLDG VENT RELEASE			
MIDAS SCREEN LABELS	MNSTK**NR** RELEASE 1D11-K600 A/B (CPS)	MNSTK**NR** FLOW 1D11-R625 (CFM)	MNSTK**KAM** RELEASE 1D11-R631 (uCi\cc)	MNSTK**KAM** FLOW 1D11-R625 (CFM)	U1RXBG**NR** RELEASE 1D11-K619 A/B(CPM)	U1RXBG**NR** FLOW 1T41-R621 (CFM)	U1RX**KAM** RELEASE 1D11-R631 (uCi\cc)	U1RX**KAM** FLOW 1T41-R621 (CFM)	U2RXBG**NR** RELEASE 2D11-R619 A/B (CPM)	U2RXBG**NR** FLOW 2T41-R621 (CFM)	U2RX**KAM** RELEASE 2D11-R631 (uCi\cc)	U2RX**KAM** FLOW 2T41-R621 (CFM)
PANEL MPL#	1H11-P604	1H11-P645	1H11-P689	1H11-P645	1H11-P604	1H11-P645	1H11-P689	1H11-P645	2H11-P645	2H11-P645	2H11-P689	2H11-P645
TIME												

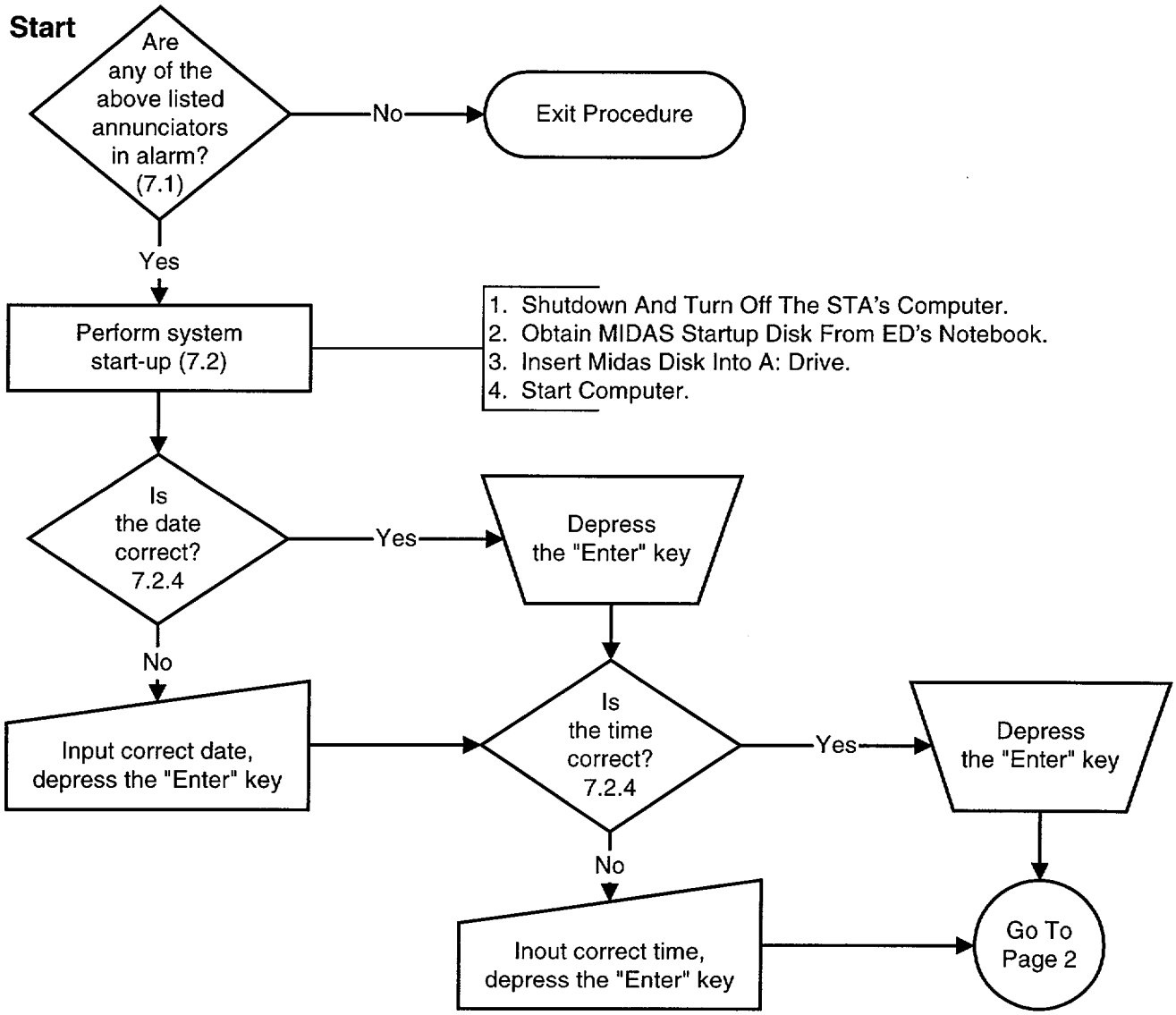
CHECK UNITS FOR RADIOLOGICAL DATA ENTRIES TO ENSURE THAT THE VALUES ARE THE SAME AS THOSE REQUIRED BY MIDAS.

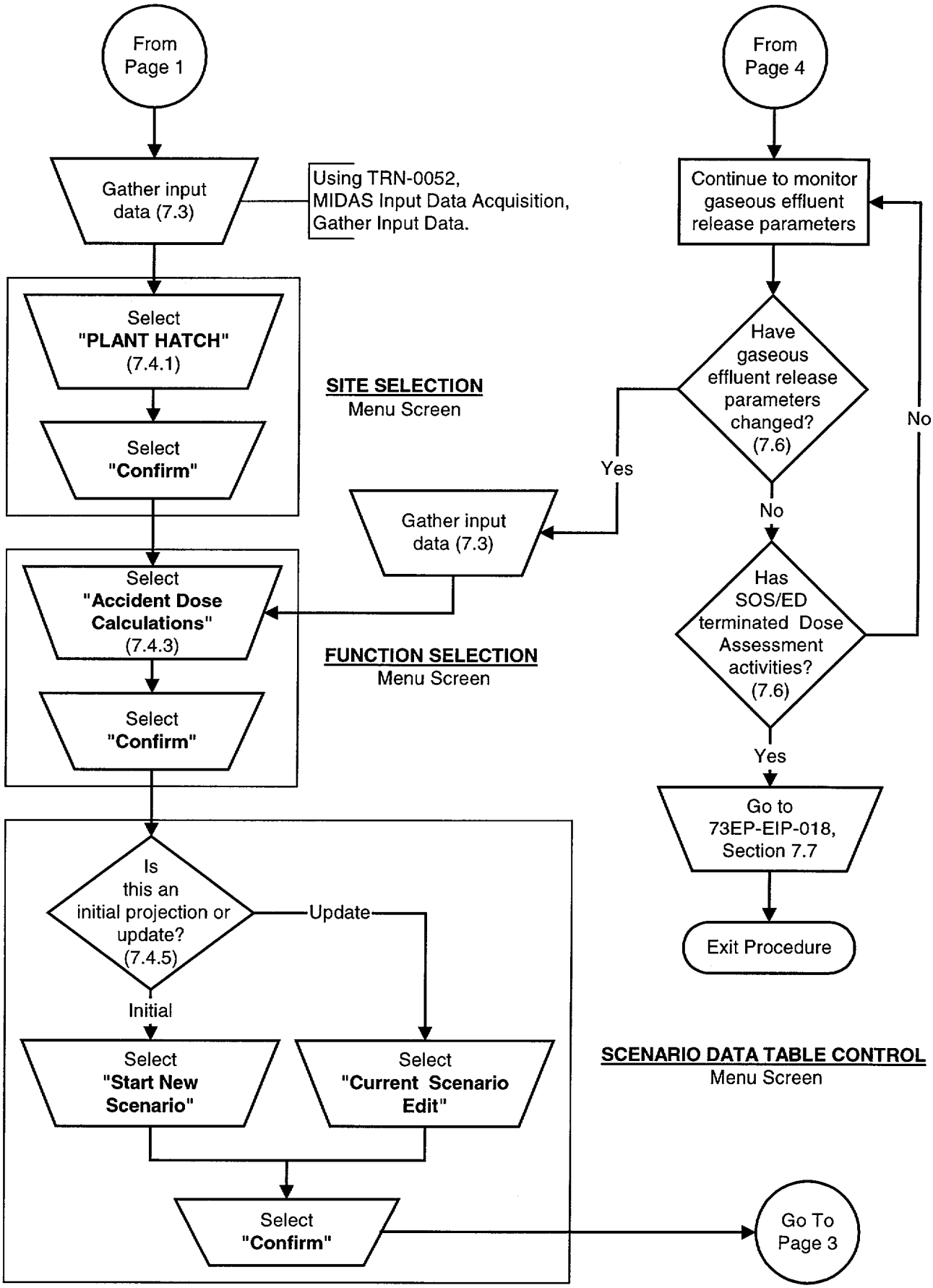
Default flow values are as follows:	UNISOLATED	ISOLATED
Unit 1 Rx Bldg. Vent	288,905 CFM	193,870 CFM
Unit 2 Reactor Building Vent	198,840 CFM	162,340 CFM
Main Stack	20,000 CFM	20,000 CFM

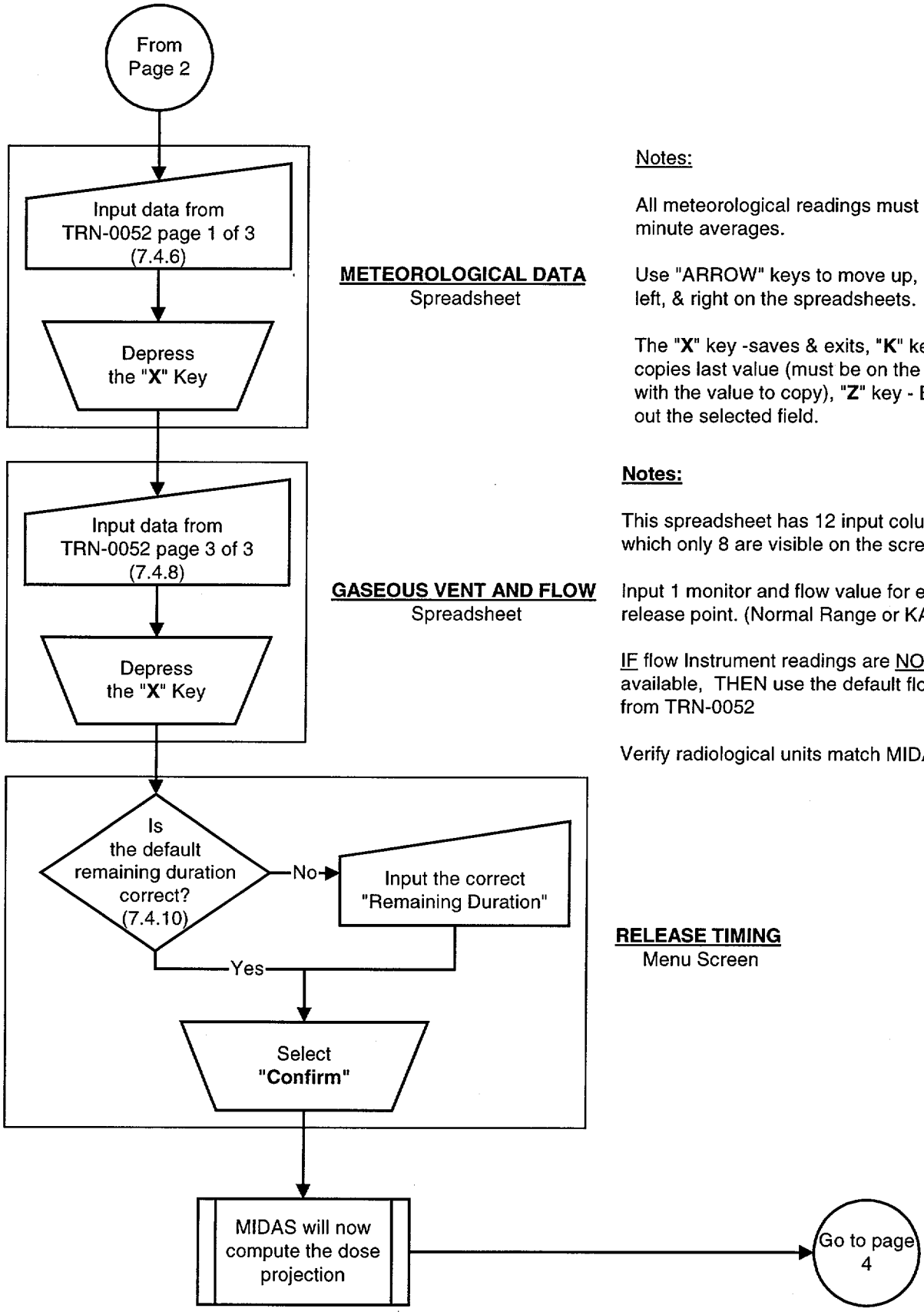
Main Stack Annunciator	Panel Number
OFF GAS VENT RADIATION HIGH-HIGH	1H11-P601-4
OFF GAS VENT RADIATION HIGH	1H11-P601-4
OFF GAS VENT RADIATION DNSC/INOP	1H11-P601-4
OFF GAS VENT SAMPLE FLOW HIGH/LOW	1H11-P601-4

Unit I Reactor Building Vent Stack Annunciator	Panel Number
RX BLDG VENT SAMPLE FLOW HIGH/LOW	1H11-P601-4
REFUELING FLOOR VENT EXHAUST RADIATION HI-HI	1H11-P601-4
RX BLDG STACK RADN MON HIGH-HIGH	1H11-P603-2
RX BLDG STACK RADN MON HI	1H11-P603-2

Unit 2 Reactor Building Vent Stack Annunciator	Panel Number
RX BLDG VENT EXHAUST RADIATION HI-HI	2H11-P601-2
RX BLDG VENT EXHAUST RADIATION HIGH	2H11-P601-2
RX BLDG VT MON HIGH/LOW FLOW DOWNSCALE/INOP	2H11-P601-4
REFUELING FLOOR VENT EXHAUST RADIATION HI-HI	2H11-P601-4




From Page 1
Gather input data (7.3)
Using TRN-0052, MIDAS Input Data Acquisition, Gather Input Data.
Select "PLANT HATCH" (7.4.1)
Select "Confirm"
SITE SELECTION
Menu Screen
Gather input data (7.3)
Select "Accident Dose Calculations" (7.4.3)
Select "Confirm"
FUNCTION SELECTION
Menu Screen
Is this an initial projection or update? (7.4.5)
Update
Initial
Select "Start New Scenario"
Select "Current Scenario Edit"
Select "Confirm"
SCENARIO DATA TABLE CONTROL
Menu Screen
Go To Page 3
From Page 4
Continue to monitor gaseous effluent release parameters
Have gaseous effluent release parameters changed? (7.6)
Yes
No
Has SOS/ED terminated Dose Assessment activities? (7.6)
No
Yes
Go to 73EP-EIP-018, Section 7.7
Exit Procedure



METEOROLOGICAL DATA
Spreadsheet

Notes:

All meteorological readings must be 15 minute averages.

Use "ARROW" keys to move up, down, left, & right on the spreadsheets.

The "**X**" key -saves & exits, "**K**" key - copies last value (must be on the field with the value to copy), "**Z**" key - Blanks out the selected field.

GASEOUS VENT AND FLOW
Spreadsheet

Notes:

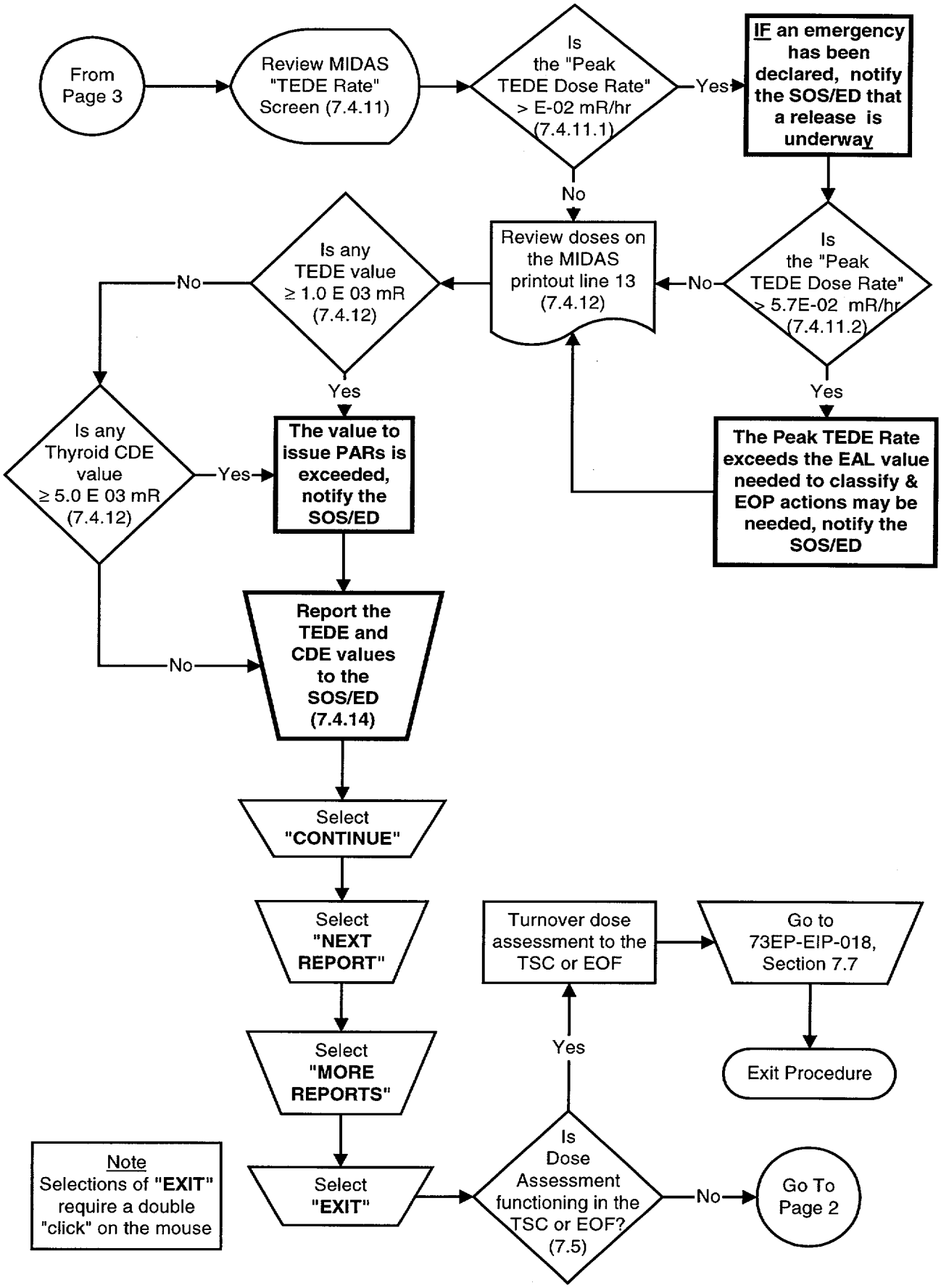
This spreadsheet has 12 input columns of which only 8 are visible on the screen.

Input 1 monitor and flow value for each release point. (Normal Range or KAMAN)

IF flow Instrument readings are NOT available, THEN use the default flows from TRN-0052

Verify radiological units match MIDAS.

RELEASE TIMING
Menu Screen


From Page 3
Review MIDAS "TEDE Rate" Screen (7.4.11)
Is the "Peak TEDE Dose Rate" > E-02 mR/hr (7.4.11.1)
Yes
IF an emergency has been declared, notify the SOS/ED that a release is underway
No
Review doses on the MIDAS printout line 13 (7.4.12)
No
Is the "Peak TEDE Dose Rate" > 5.7E-02 mR/hr (7.4.11.2)
Yes
The Peak TEDE Rate exceeds the EAL value needed to classify & EOP actions may be needed, notify the SOS/ED
Is any TEDE value ≥ 1.0 E 03 mR (7.4.12)
No
Yes
The value to issue PARs is exceeded, notify the SOS/ED
Is any Thyroid CDE value ≥ 5.0 E 03 mR (7.4.12)
Yes
No
Report the TEDE and CDE values to the SOS/ED (7.4.14)
Select "CONTINUE"
Select "NEXT REPORT"
Select "MORE REPORTS"
Select "EXIT"
Is Dose Assessment functioning in the TSC or EOF? (7.5)
Yes
Turnover dose assessment to the TSC or EOF
Go to 73EP-EIP-018, Section 7.7
Exit Procedure
No
Go To Page 2
Note
Selections of "EXIT" require a double "click" on the mouse