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244 - 244 - DOSE ASSESSMENT STAFFER
REMOVE MANUAL TABLE OF CONTENTS DATE: 11/12/2003
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CATEGORY: PROCEDURES TYPE: EP
ID: EP-PS-244
REPLACE: REV:7

REPLACE: PCAF 2003-1484 REV: N/A

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EOF DOSE ASSESSMENT FLOWCHART

TAB 14
EP-PS-244-14

ACTIVATION REQUIREMENTS
 Dose Assessment Supervisor
 - DAST & FTD Available
 Dose Assessment Staffer
 - MIDAS Available &
 - PICSY or TSC Communications Available
 Field Team Director
 - Communications Link Available

EVENT STATUS
 RPC to DASU
 TSC DC to DAST
 HP Radioman to FTD
 "A" and "B" Team Briefing
 Staff Briefing and Info Exchange

TURNOVER RPC to DASU
 ALL Calculations
 Control of Field Teams
 DEP/BRP Communications
 Event/Source Term Agreement
 Liquid/Airborne Release
 Previous Data Transferred
 Turnover Time

DEFAULT RATIOS
 Noble Gas to I-131 = 1,000
 Noble Gas to Particulate = 10,000

Field Threshold Values
 RMS (Fixed & Mobile) Gamma detectors = 0.1 mR/hr
 OSCAR Iodine monitor = 68.4 mrem/hr
 Field Team I-131 Air Sample = 100 ncpm

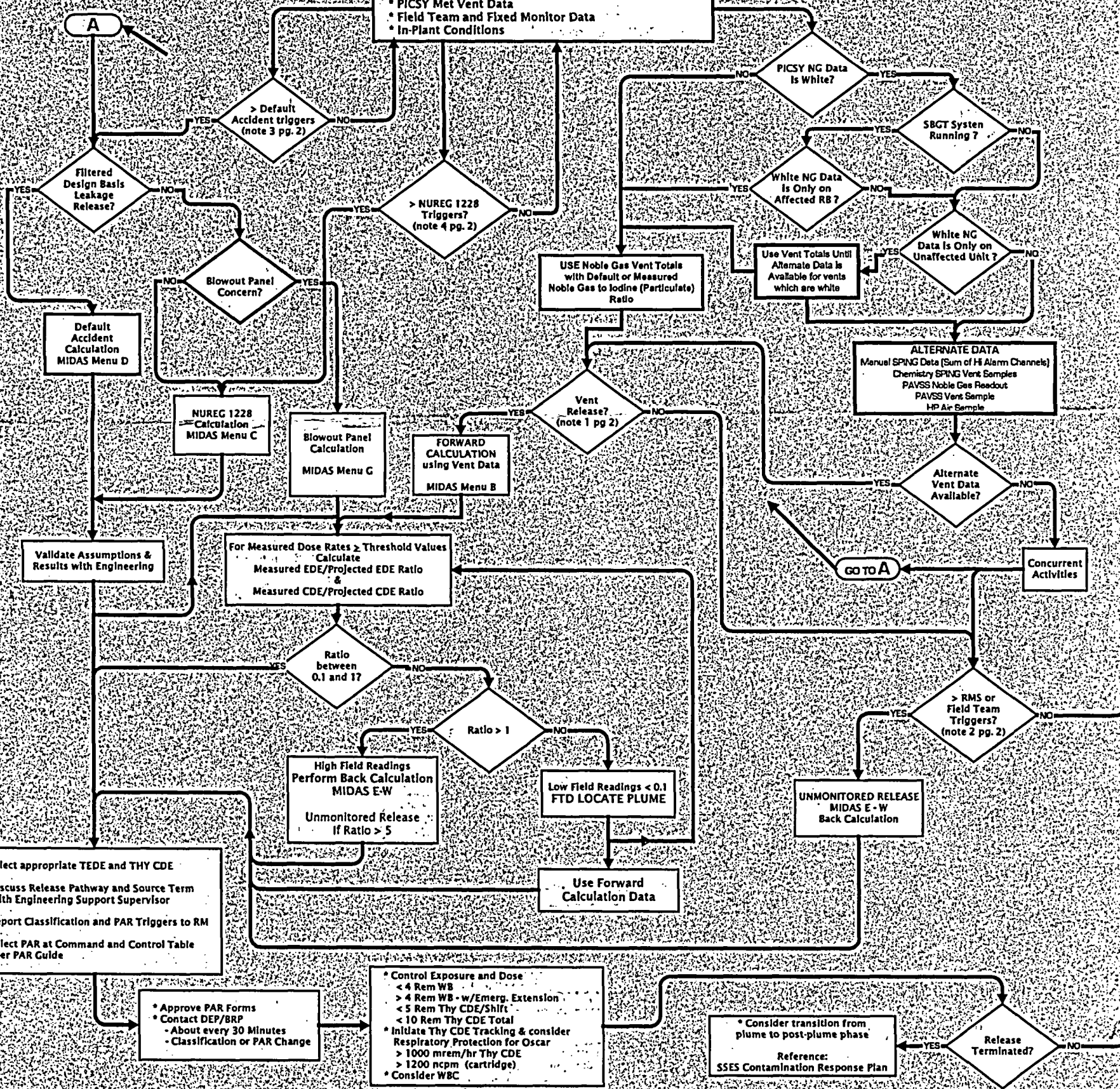
Vent Flow Rates (cc/minute)
 U#1 RB = 3.5E+9 cc/min U#2 RB = 3.2E+9 cc/min
 U#1 TB = 4.4E+9 cc/min U#2 TB = 2.7E+9 cc/min
 SBTG (10,100 scfm) = 2.9E+8 cc/min w/outside air dilution

Secondary Containment Flow to SBTG
 Max Flow Rate (4000 scfm max) = 1.1E+8 cc/min

Filter Efficiencies
 SE Charcoal Acceptance Criteria = 99.825%
 SE Particulate Acceptance Criteria = 99.95%

Containment High Radiation Monitor
 Background @ 100% power = 3 R/hr

MONITOR EFFLUENT RELEASE AND PLANT STATUS
 PICSY Met Vent Data
 Field Team and Fixed Monitor Data
 In-Plant Conditions



DOSE ASSESSMENT EMERGENCY ACTION LEVELS

NOTE 1 VENT RELEASE TRIGGERS	NOTE 2 RMS/FIELD TRIGGERS	NOTE 3 DEFAULT ACCIDENT TRIGGERS	NOTE 4 NUREG 1228 TRIGGERS	NOTE 5 LIQUID RELEASE TRIGGERS
<p>◆ AIRBORNE RELEASE</p> <p>Total NG Release Rate > 1.0E6 $\mu\text{ci}/\text{min}$** or Entry into one of the following EALs* EAL 3, 15, 17, 18 or 21 with a DSC breached or Initiation of SBTG for treatment of activity within Containment* or A release above normal levels attributable to a declared event* or An unmonitored release is in progress</p> <p>* Perform one calculation unless directed otherwise ** Perform dose projections every 15 minutes</p>	<p>◆ AIRBORNE RELEASE **</p> <p>≥ 0.1 mrem/hr EDE (ASP1 or RMS gamma reading) ≥ 68.4 mrem/hr Thy CDE (OSCAR RMS Iodine) ≥ 100 ncpm on Iodine Cartridge</p> <p>** Perform dose projections every 15 minutes</p>	<p>◆ INDICATION OF FUEL DAMAGE</p> <p>> 10 R/hr CHRM</p>	<p>◆ UNFILTERED VENT RELEASE</p> <p>◆ RELEASE RATE > DESIGN BASIS 1%/DAY</p> <p>◆ CORE UNCOVERED > 15 MINUTES</p> <p>◆ SPENT FUEL POOL RELEASE</p>	<p>◆ LIQUID RELEASE</p> <p>Liquid Effl. \geq TRM</p>
<p>◆ EAL 15.1 (Unusual Event)</p> <p>>2.0E6 $\mu\text{ci}/\text{min}$ NG for 60 min. or longer</p>				<p>◆ EAL 15.1</p> <p>Liquid Effl. ≥ 2 x TRM for 60 min</p>
<p>◆ EAL 15.2 (Alert)</p> <p>>2.0E8 $\mu\text{ci}/\text{min}$ NG for 15 min. or longer</p>		<p>EAL 3.2 SEVERE CLAD DEGRADATION</p> <p>>200 R/hr CHRM or >300 $\mu\text{ci}/\text{cc}$ DE Iodine-131</p>		<p>◆ EAL 15.2</p> <p>Liquid Effl. ≥ 200 x TRM for 15 min</p>
<p>◆ EAL 15.3 (Site Area Emergency)</p> <p>>6.2E8 $\mu\text{ci}/\text{min}$ NG for greater than 15 min & dose projection not available</p> <p style="text-align: center;">Note:</p> <p>If dose projection cannot be made within 15 minute period, then declaration to be made on valid sustained NG release rate.</p> <p>PROJECTED DOSE @ EPB</p> <p>>100 mrem TEDE or >500 mrem THY CDE</p>	<p>◆ EAL 15.3</p> <p>RMS PERIMETER MONITORING SYSTEM</p> <p>> 100 mR/hr for 15 min or longer</p> <p>FIELD TEAM SURVEY RESULTS @ EPB</p> <p>> 100 mR/hr & expected for 60 min or ≥ 500 mrem THY CDE for one hour of inhalation</p>	<p>◆ EAL 3.3 SEVERELY DEGRADED CORE</p> <p>> 400 R/hr CHRM or > 1000 $\mu\text{ci}/\text{cc}$ DE Iodine-131</p>		
<p>◆ EAL 15.4 (General Emergency)</p> <p>>6.2E9 $\mu\text{ci}/\text{min}$ NG for greater than 15 min & dose projection not available</p> <p style="text-align: center;">Note:</p> <p>If dose projection cannot be made within 15 minute period, then declaration to be made on valid sustained NG release rate.</p> <p>PROJECTED DOSE @ EPB</p> <p>≥ 1000 mrem TEDE or ≥ 5000 mrem THY CDE</p>	<p>◆ EAL 15.4</p> <p>RMS PERIMETER MONITORING SYSTEM</p> <p>> 1000 mR/hr for 15 min or longer</p> <p>FIELD TEAM SURVEY RESULTS @ EPB</p> <p>> 1000 mR/hr & expected for 60 min or ≥ 5000 mrem THY CDE for one hour of inhalation</p>	<p>◆ EAL 3.4 CORE MELT</p> <p>> 400R/hr CHRM plus listed conditions or > 1000 $\mu\text{ci}/\text{cc}$ DE Iodine-131 or > 2000 R/hr CHRM</p>		