

CHAPTER 10
RADIOACTIVE MATERIALS RESPONSE AND ENFORCEMENT PROGRAM
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CHAPTER 10

RADIOACTIVE MATERIALS RESPONSE AND ENFORCEMENT PROGRAM

1. GENERAL.

a. Authority. The Department has the statutory authority to enforce specific regulations relating to the transportation of radioactive materials. This authority is contained in Sections 2813, 32001, 33000, 34500 and 34501 of the California Vehicle Code; Title 13, California Code of Regulations (CCR), Sections 1158 through 1178; and Title 49, Code of Federal Regulations (CFR), Parts 397 and 170 through 179 as adopted.

b. Responsibility. The Department has the obligation to respond to hazardous materials incidents, including incidents involving radioactive materials, within the Department's jurisdiction (refer to Chapter 2, Hazardous Materials Incident Command and Reporting, of this manual). The Department has specific responsibility for radiological monitoring under the California Emergency Plan.

c. Background. Radioactive materials are hazardous materials and are subject to all applicable regulations thereof. However, due to the unique characteristics of radioactivity, radioactive materials are subject to more stringent regulations above and beyond all other hazardous materials. Radioactive material regulations are complex, with unique terminology and enforcement protocols. Furthermore, radiation cannot be smelled, touched, tasted, or seen and can only be detected by special equipment. These aspects are compounded by unprecedented media attention and public apprehension. Therefore, a higher level of training is required for enforcement action or emergency response situations involving radioactive materials.

2. POLICY.

a. Enforcement of Radioactive Materials Regulations. Enforcement actions specific to the transportation of radioactive materials shall only be performed by commercially trained personnel who are currently certified in General Hazardous Materials Inspection (GHMI) procedures and the Radioactive Materials Response and Enforcement Program (RMREP) (refer to Chapter 12, Training, of this manual).

(1) This policy shall not deter personnel from making a cursory inquiry for compliance and/or to ascertain if further investigation by trained personnel is necessary.

(2) This policy shall not deter enforcement personnel from taking actions against a carrier in areas not directly related to the radioactive materials being transported (i.e., moving or equipment violations).

b. Emergency Response. Personnel shall only respond to an incident involving radioactive materials within their level of training and available resources, and within the response guidelines set forth in Chapter 2 of this manual. Radiological monitoring and interpretation of technical information for radiological incidents shall only be performed by personnel who are currently certified in the RMREP.

3. RESPONSIBILITIES.

a. Field Divisions. Field Divisions shall designate a Division RMREP coordinator. Field Divisions shall ensure appropriate management controls are maintained through the Division coordinator. Field Divisions should maintain a minimum of two instructors. Additional instructors may be certified with the approval of Commercial Vehicle Section (CVS) (refer to Chapter 12 of this manual).

b. Division Coordinator. The Division coordinator is responsible for the following:

(1) Coordinate required initial and annual refresher training.

(2) Ensure the use of approved training curriculum available from CVS.

(3) Act as liaison between CVS and the field regarding questions pertaining to the RMREP.

(4) Coordinate with Areas, Commercial Vehicle Enforcement Facilities (CVEF), and mobile road enforcement (MRE) officers for distribution, service, and calibration of the radiological monitors and survey meters.

c. Commercial Vehicle Section. Commercial Vehicle Section shall maintain a certified Departmental Radiation Safety Officer (DRSO) and alternates to certify instructors, review training materials, evaluate Radiation Portal Monitor (RPM) alarm incidents, coordinate Joint Assessment Center (JAC) notifications, and provide necessary staffing to support the RMREP. The DRSO and alternates shall meet the minimum training requirements as outlined in Chapter 12 of this manual.

4. ENFORCEMENT PROCEDURES.

a. Inspections. Inspections of vehicles transporting radioactive materials shall be performed by personnel who are currently certified in GHMI and RMREP, and

under the general guidelines outlined in this chapter. The inspections should include, but are not limited to, the following applicable areas:

- (1) Shipping Papers.
- (2) Marking.
- (3) Labeling.
- (4) Placarding.
- (5) Packaging.
- (6) Securement.
- (7) Compatibility.
- (8) Containment.
- (9) Radiation Levels.
- (10) Routing.
- (11) Licensing.

b. North American Standard Level VI Inspection Procedures.

(1) The Department has adopted the Commercial Vehicle Safety Alliance (CVSA) North American Standard (NAS) Level VI inspection procedure and out-of-service (OOS) criteria for commercial highway vehicles transporting transuranics and highway route controlled quantities (HRCQ) of radioactive materials. These procedures shall only be utilized on vehicles transporting transuranics and/or HRCQ of radioactive materials as defined in Title 49, CFR, Section 173.403.

(2) Commercial Vehicle Section will provide CVSA NAS Level VI inspection procedure training to a select number of uniformed commercial personnel in each Division. Only those personnel who are certified by the CVSA will be allowed to perform Level VI inspections and apply the Level VI OOS criteria.

c. Out-of-Service Criteria. Radioactive materials shipments, not subject to NAS Level VI inspection criteria, will be subject to NAS OOS criteria. If radiation in excess of regulatory limits is detected and verified, appropriate emergency response procedures shall be implemented.

5. EMERGENCY RESPONSE TO TRANSPORTATION INCIDENTS.

a. Background. Radiological emergencies create a hazard to life, health, and property. An appropriate response is expected in order to protect public health and safety. Departmental personnel should be prepared to handle incidents involving radioactive materials. Departmental personnel investigating or assisting in a radioactive materials incident should ensure maximum protection for themselves and the public.

b. Emergency Incident Response. Radiation incidents are classified as hazardous materials incidents. Personnel shall only respond within their level of training, available resources, and response guidelines set forth in Chapter 2 of this manual. The following procedures are only to be performed by personnel who are currently certified in GHMI and RMREP:

(1) For radiological incidents within California Highway Patrol (CHP) jurisdiction, a member of the Department shall implement the Incident Command System (ICS).

(2) Properly trained personnel shall perform radiological monitoring and assessment during radiological incidents in support of the incident commander (IC).

(3) Departmental personnel have limited mitigation capabilities, and with approval from the IC and Safety Officer, may enter known atmospheres within the limits of their personal protective equipment. Personnel shall ensure the requirements of Title 29, CFR, Part 1910.120q and Title 8, CCR, Section 5192(q) are met before mitigation or monitoring techniques are performed.

6. NUCLEAR POWER PLANT EMERGENCY RESPONSE PLAN.

a. General. An accidental release of radioactive materials outside of a nuclear power plant is possible. The State of California has developed a response plan to ensure public and private agencies are prepared to provide a rapid response to limit radiation exposure and environmental contamination.

b. Departmental Responsibility. The California Emergency Plan requires the Department to develop a nuclear power plant emergency response procedure.

c. Division Responsibility. Divisions within the Emergency Planning Zone (EPZ), Public Education Zone (PEZ), or Ingestion Pathway Zone (IPZ) (within approximately 50 miles) of a nuclear power plant are required to participate with

local, state, and federal agencies in developing detailed emergency response plans for their respective facilities.

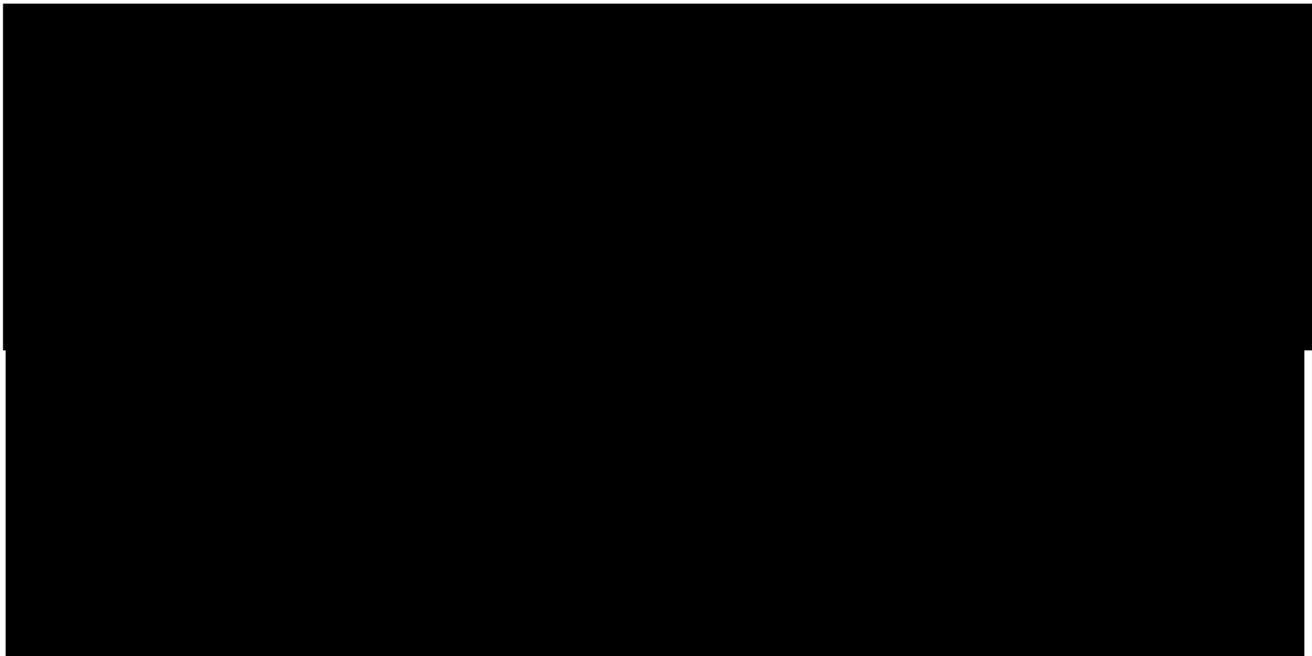
d. Area Responsibility. Areas within the EPZ, PEZ or IPZ (within approximately 50 miles) of a nuclear power plant are required to participate with local, state, and federal agencies in developing a subplan outlining response actions as described in their respective Division's emergency response plan.

e. Emergency Response Plan Guidelines. Each nuclear power plant site possesses a number of planning variables such as geography, weather, etc. Therefore, it is necessary for Divisions and Areas to work with local, state, and federal agencies in developing emergency response plans which shall follow ICS procedures.

f. Employee Notification. Divisions and Areas within the EPZ, PEZ or IPZ (within approximately 50 miles) of a nuclear power plant are responsible for briefing all employees of the Department's responsibilities and actions in a nuclear power plant emergency.

(1) This briefing shall include the general information in this chapter coupled with the specific procedures established in their local nuclear power plant emergency plan.

(2) Provisions shall also be made to conduct refresher briefings for all employees on an annual basis.





8. EQUIPMENT, OPERATIONS, AND MAINTENANCE.

c. Radiological Response Kit.

(1) The Radiological Response Kit (RRK) consists of the following equipment:

- (a) Victoreen 450-CHP Ion Chamber Digital Survey Meter (1).
- (b) Radioactive check source (1).
- (c) Science Application International Corporation (SAIC) PD-3i-s™ Digital Personal Dosimeter (1).
- (d) Air Purifying Respirator with appropriate filters (1).
- (e) Personal protective garment (2).
- (f) Rubber gloves (2 pairs).
- (g) Laminated instruction card (1).
- (h) Additional 9-volt alkaline battery for Victoreen 450-CHP (2).
- (i) Additional “AA” batteries for SAIC PD-3i-s™ Digital Personal Dosimeter.
- (j) Yellow plastic carrying case (1).

(2) Distribution. At a minimum, the RRKs should be distributed in the following priority:

- (a) One in each MRE unit.
- (b) Two at each CVEF.
- (c) One at each platform scale.
- (d) Two at each Area office.
- (e) One at each Division commercial unit.
- (f) One at each resident post with an assigned sergeant.

(3) The RRKs should be available for use by trained personnel. At least one of the two kits assigned to an Area office shall be deployed in an on-duty shift supervisor's vehicle.

(4) All uniformed sergeants and commercially trained personnel should be trained in the use of RRK's.

(5) Calibration, Repair, and Inspection. All Victoreen 450-CHP Ion Chamber survey meters and SAIC PD-3i-s dosimeters require annual calibration. Personnel shall follow the repair and maintenance guidelines below:

(a) Personnel shall not perform any repair and maintenance other than a battery change.

(b) Commercial Vehicle Section will develop and maintain a contract with a certified vendor for repair, maintenance, and calibration. Divisions should contact CVS for current contract vendor information.

1 Meters and dosimeters shall be shipped incrementally, so as not to deplete an Area or Division of operational units, to the contract vendor for calibration and service. Divisions needing repair or calibration for all other radiological equipment shall obtain approval from CVS (i.e., area monitors and NukeAlerts). Meters and dosimeters shall be removed from the yellow protective cases and sent to the contract vendor on a round trip voucher, via the state-approved shipping provider. Units shall be insured at \$1,500 per survey meter and \$360 per dosimeter.

(6) Replacement equipment for the RRK may be ordered through the Supply Services Catalog.

d. Ludlum 375-10 Area Monitor.

(1) General. The Department has Ludlum 375-10 Area Monitors assigned to each CVEF. For operating instructions, refer to the instruction manual or contact CVS.

(2) Area Monitor Alarm Setting. The area monitor alarm should be set at two times the average background reading at the unit's normal operational location.

(3) Alarm Activation Procedures.

(a) A radiological detection alarm activation during an initial pass by an area monitor constitutes reasonable suspicion a vehicle may contain a

radiological source. In order to confirm the activation, the driver shall be directed to make a second pass by an area monitor.

(b) Vehicles causing an area monitor alarm to activate a second time shall be stopped and, at a minimum, a Level II inspection shall be completed.

(c) Personnel should direct the driver to move the vehicle to a safe location prior to conducting an inspection.

(d) Uniformed personnel shall contact the driver to review shipping papers and confirm identification of the specific radioactive materials being shipped.

(e) When determining the appropriateness of conducting a search, isolating a suspicious vehicle in place, moving the vehicle to a safe location, and/or initiating emergency incident management procedures, officers and supervisors shall use sound professional judgment based on the facts readily available at the time.

(4) Inspection Procedures.

(a) Inspections of commercial vehicles based on area monitor alarms shall be conducted utilizing the RRK in accordance with this chapter and Chapter 2 of this manual. Inspection surveys shall include a check of radiation levels with the Victoreen 450-CHP Ion Chamber Digital Survey Meter and questioning of the driver. Appropriate action shall be based upon the results of the inspection.

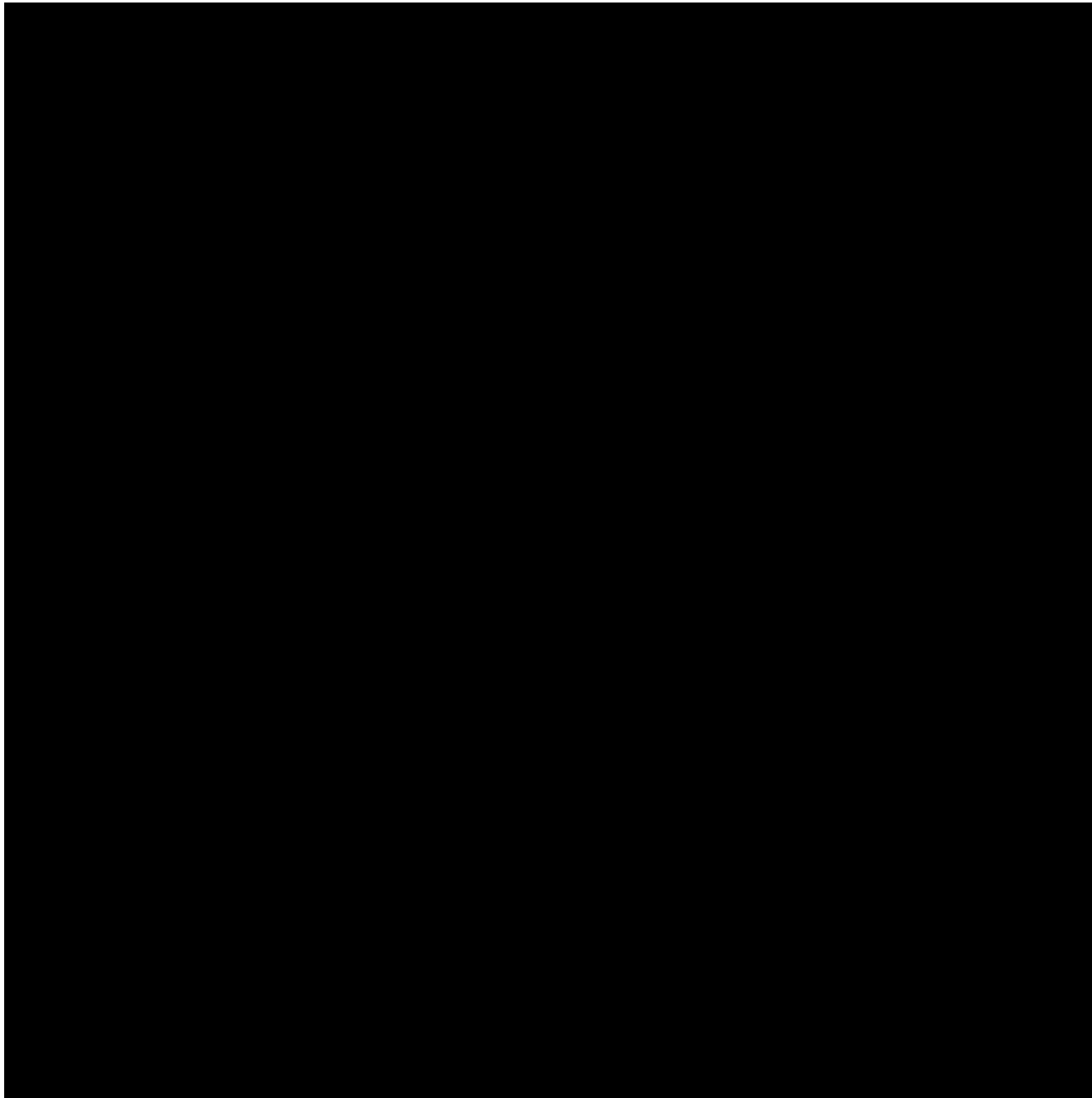
(b) Personnel shall utilize the procedures outlined in Annex C, Radiation Area Monitor Alarm Flow Chart, of this chapter for a systematic method for conducting the inspection.

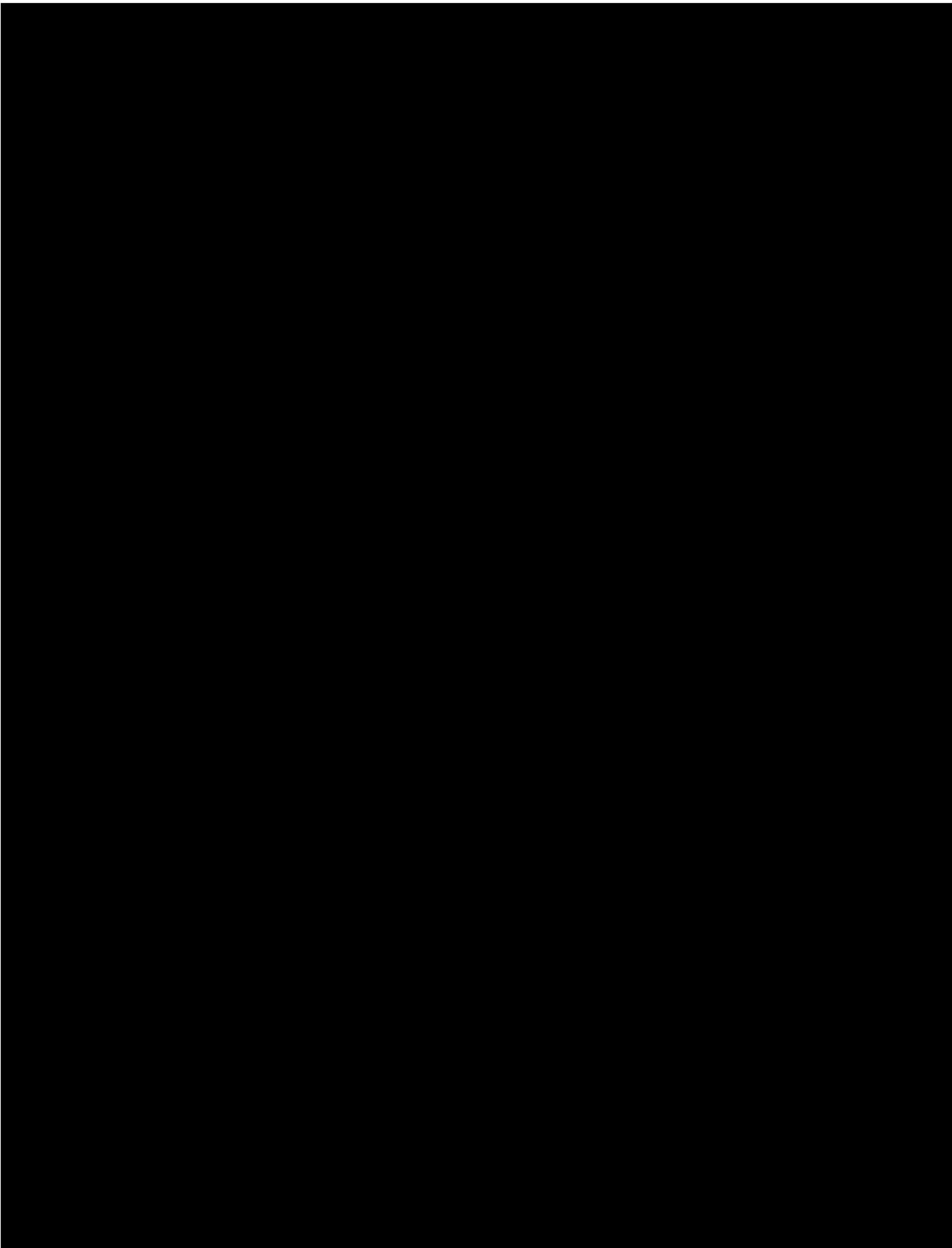
(c) The area monitor may be triggered by persons who have had radiopharmaceutical procedures. Discretion should be used in resolving these situations.

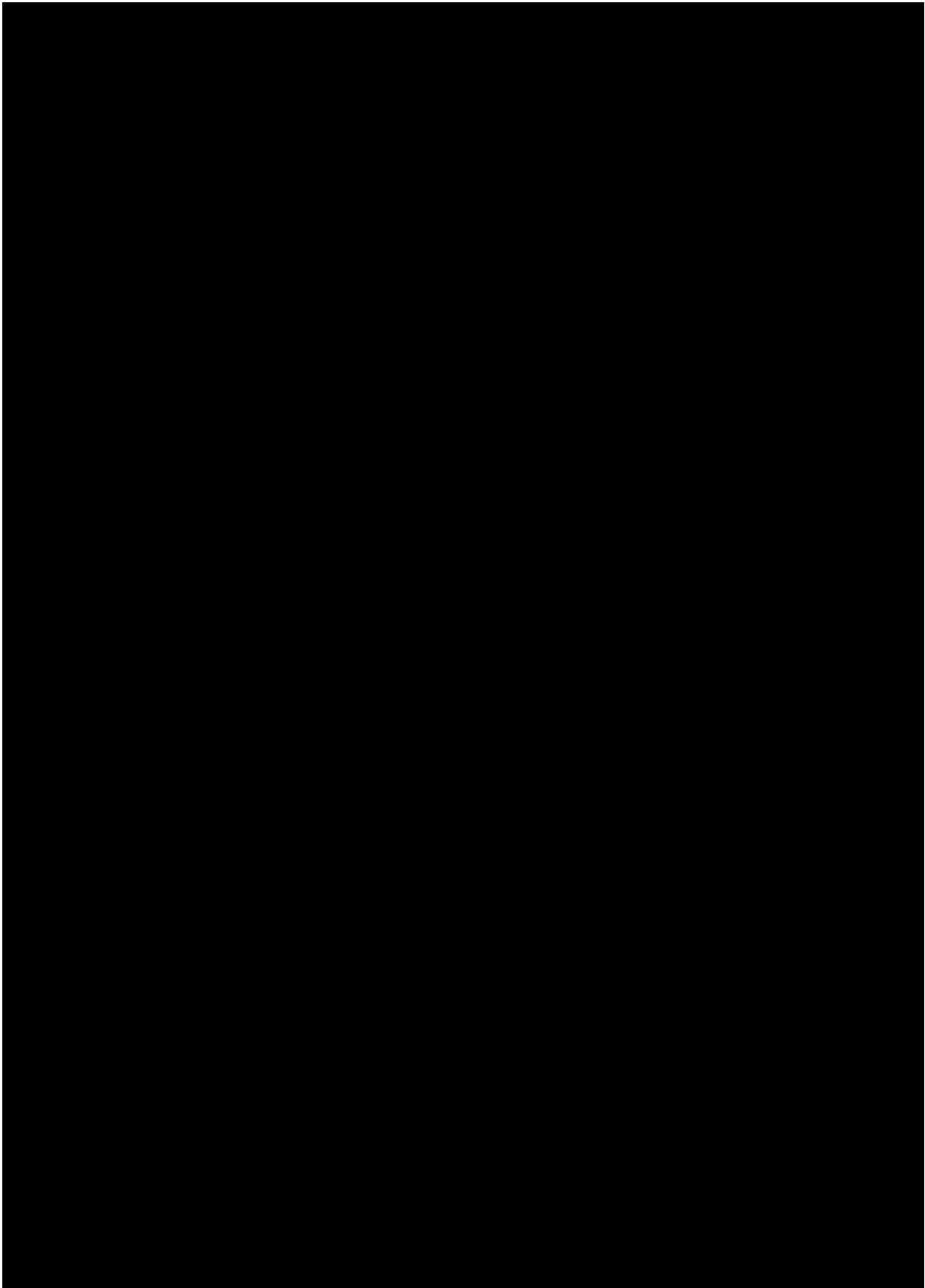
(d) A CHP 133, Survey Meter/Dosimeter Use Log (Annex B of this chapter) shall be completed whenever RRK equipment is used. Two copies of the CHP 133 shall be prepared. One shall be retained by the command and one forwarded to the DRSO within ten business days. Copies of the CHP 133 will be retained for one year from the date the inspection was conducted.

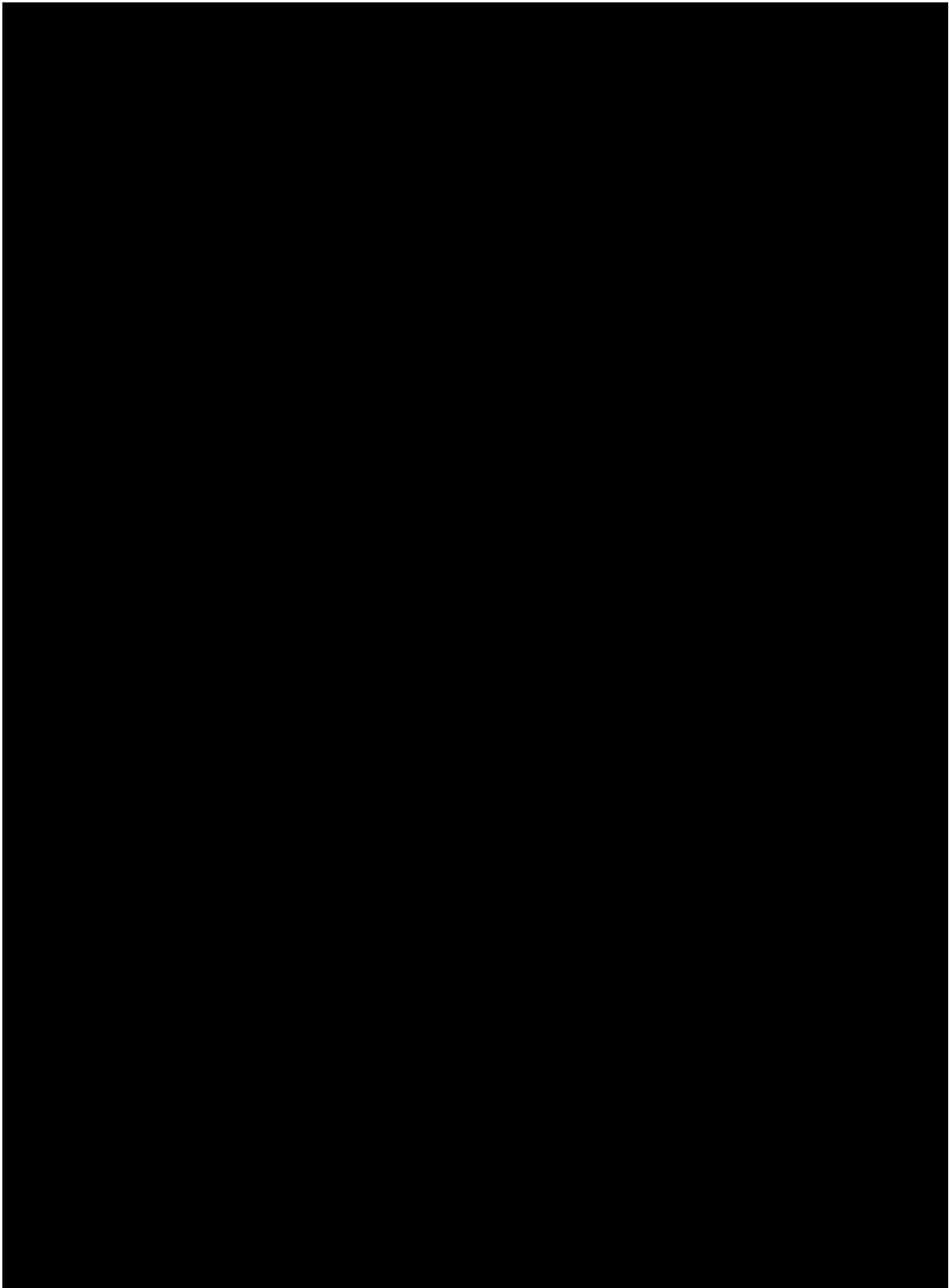
(e) Incidents where illegal activity is suspected, or where insufficient information is available to verify the legality of the load, should be treated as a hazardous materials incident. Procedures as outlined in Chapter 2 of this manual shall be followed.

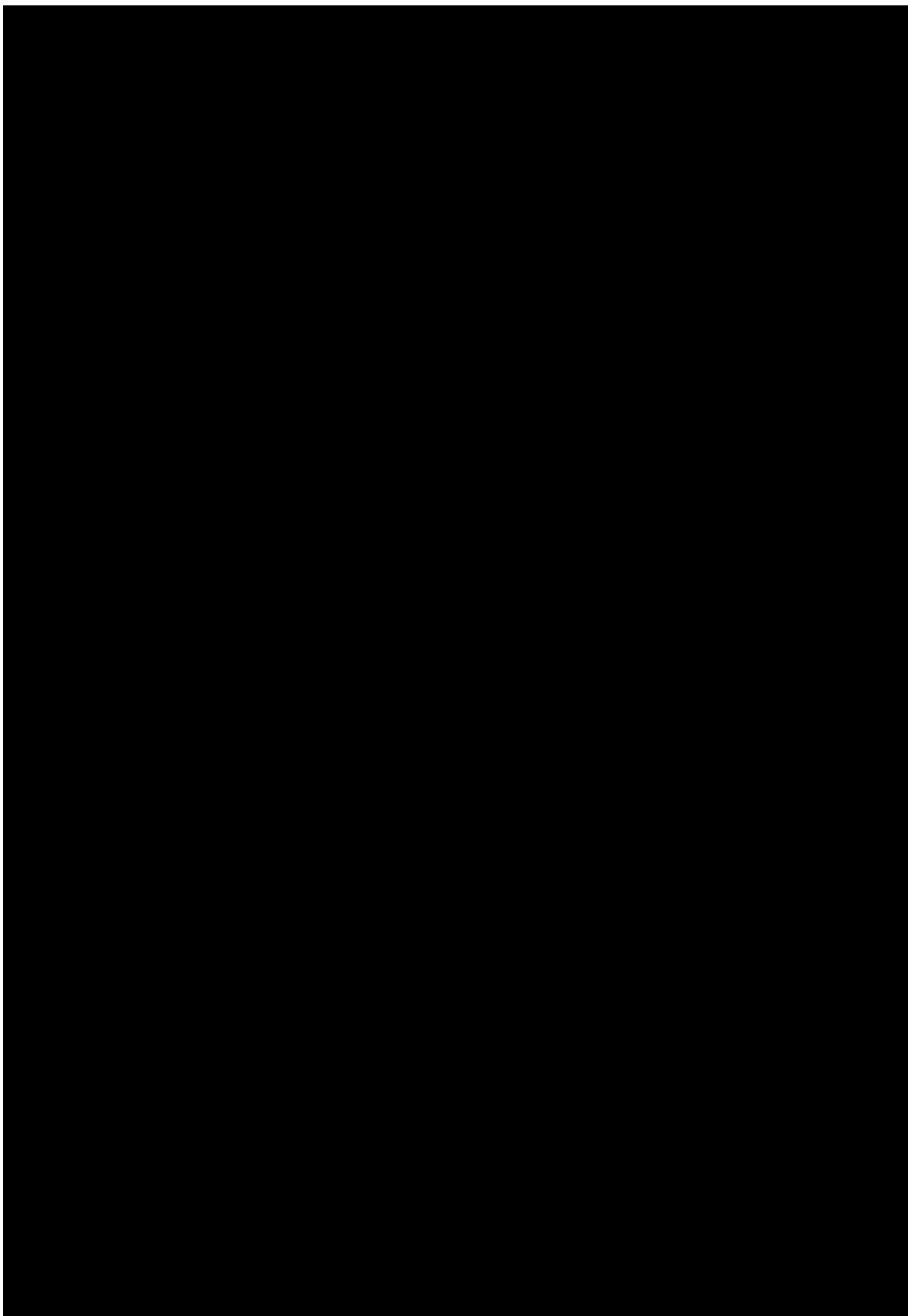
(f) The DRSO may be contacted through the Emergency Notification and Tactical Alert Center (ENTAC) for assistance or to obtain procedural instruction.

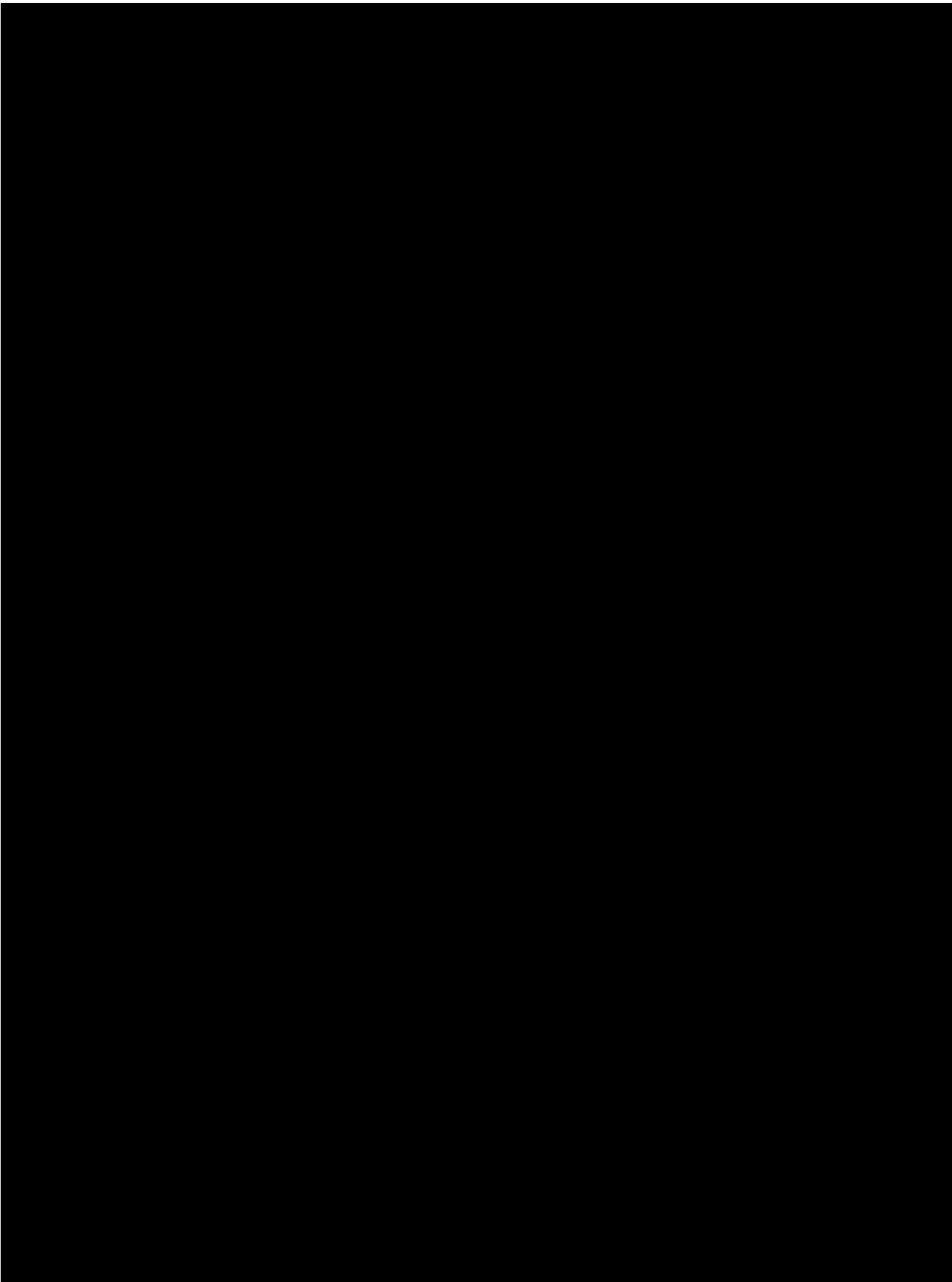


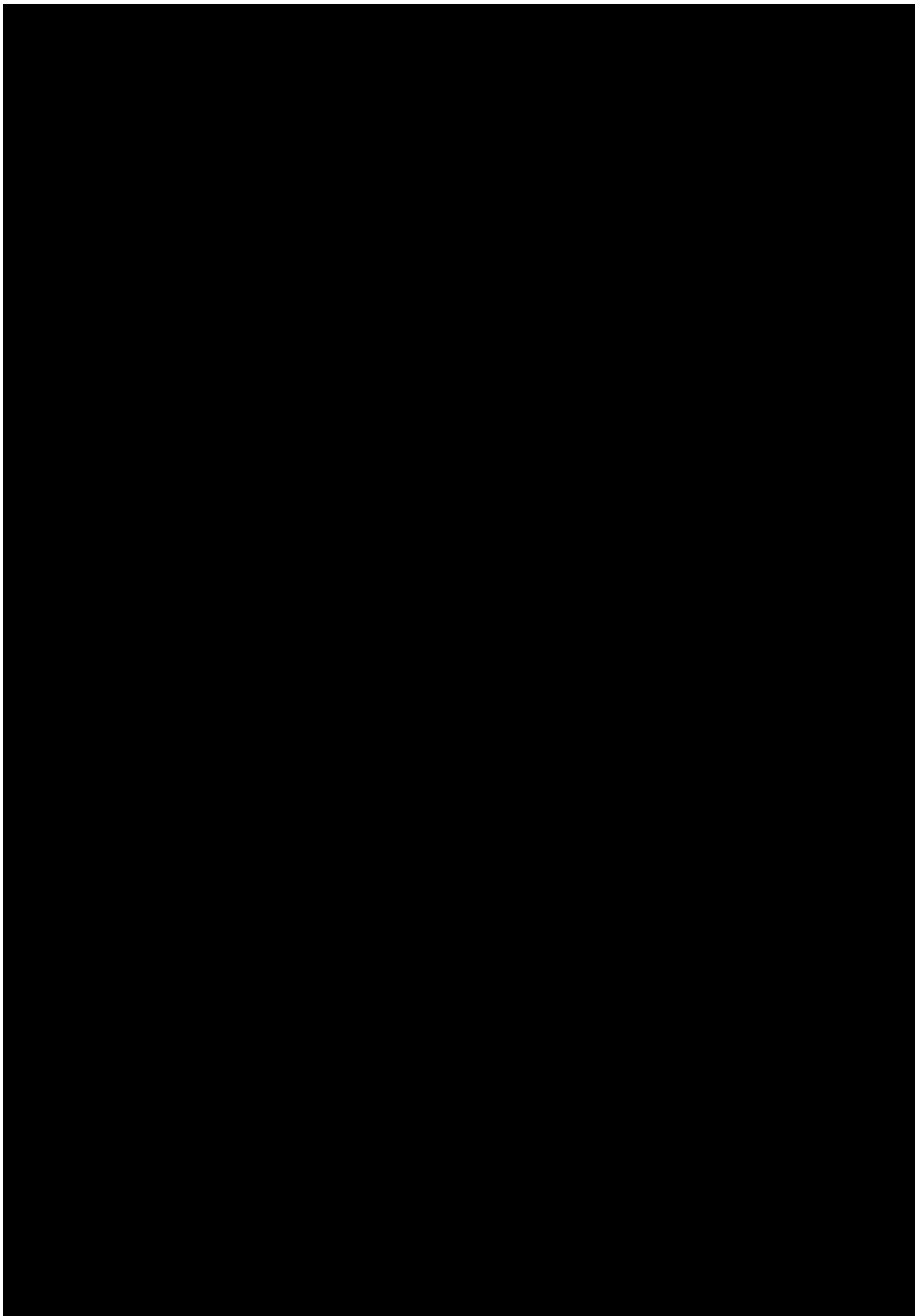


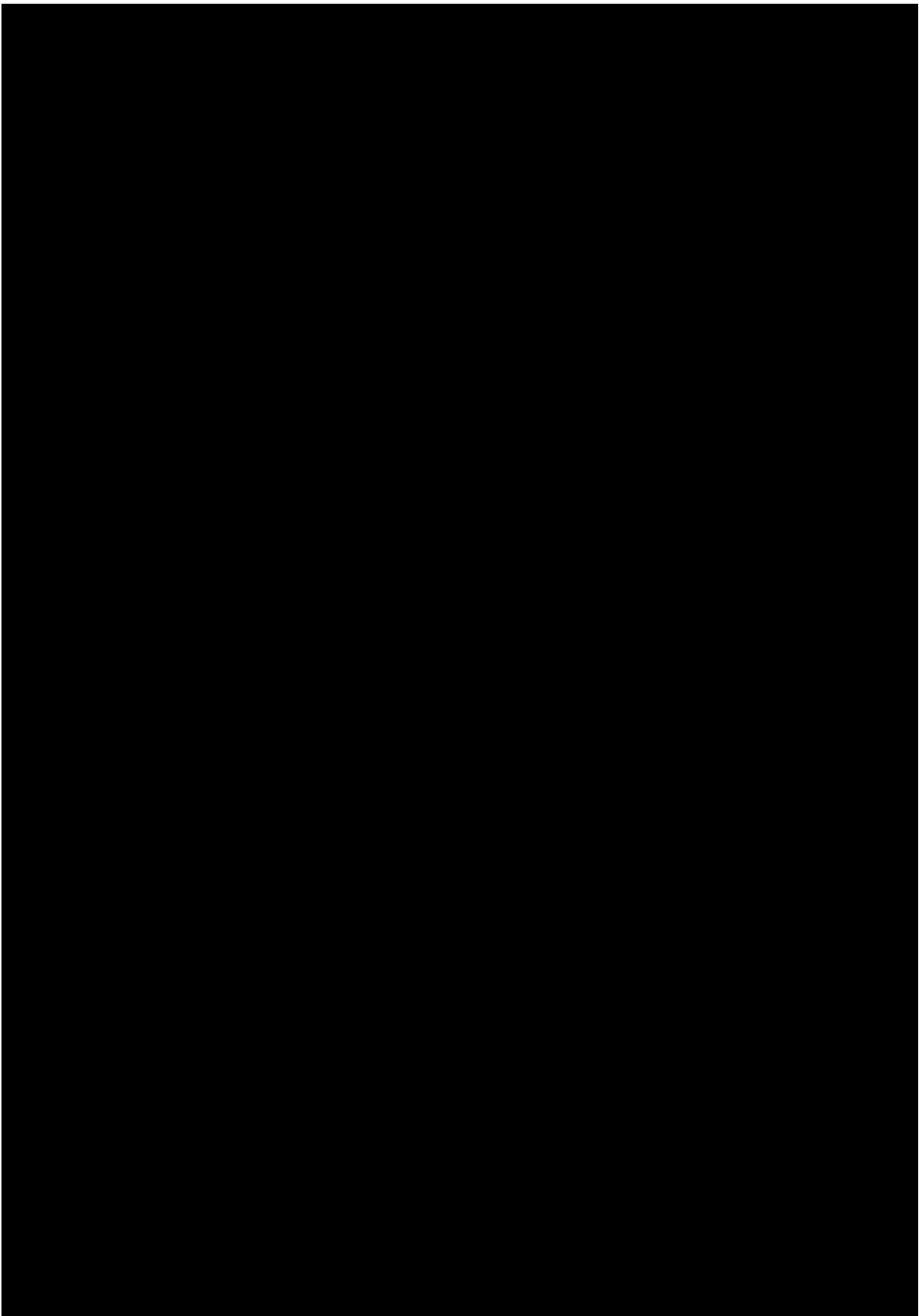


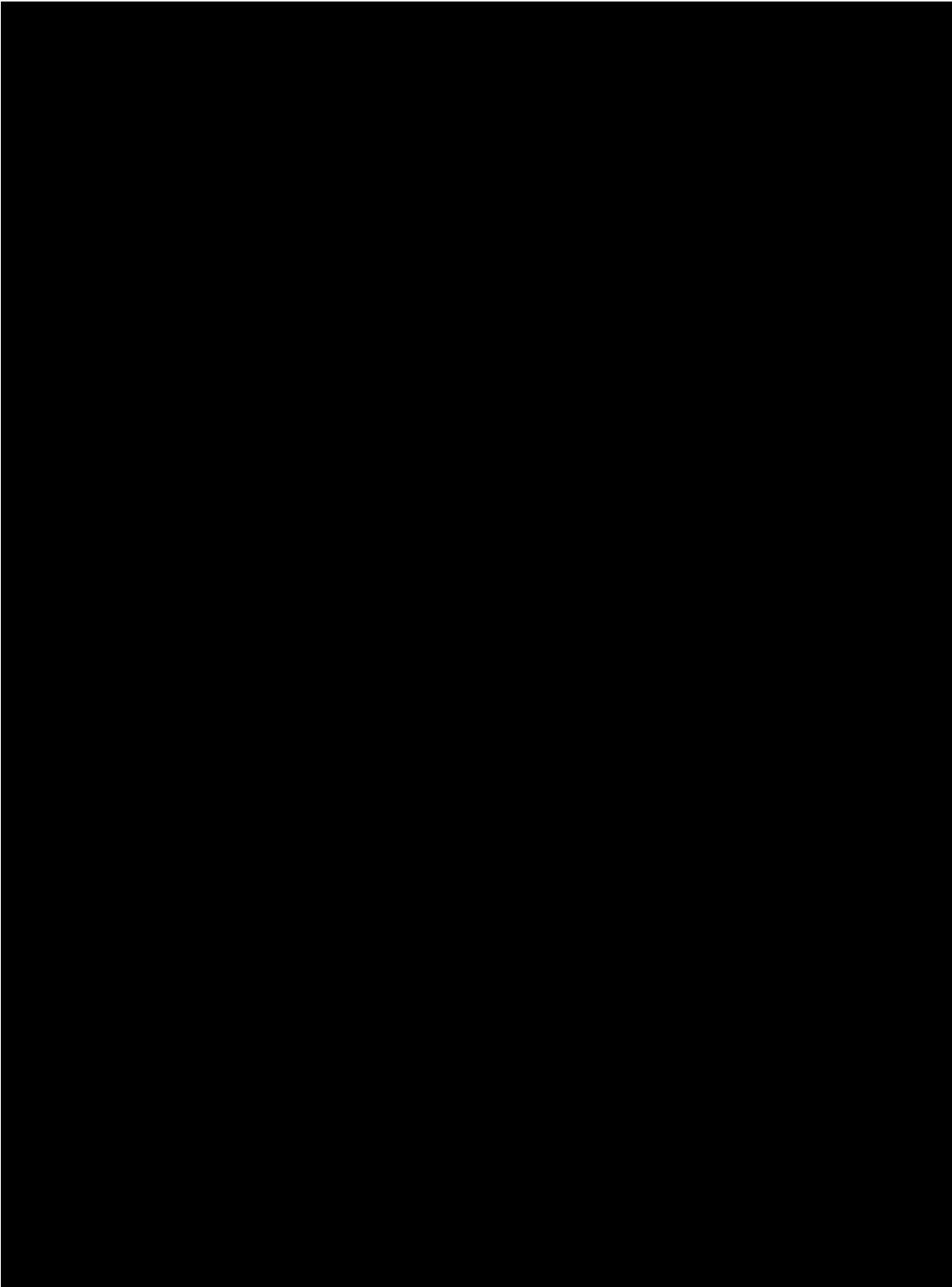














f. NukeAlert Model 951 Portable Radiation Detector.

(1) Background. The Berkeley Nucleonics NukeAlert Model 951 is a portable radiation detector which detects low-level radiation in the immediate area of the wearer. This detector is the size of a pager and should be used by departmental personnel. The detector is easy to use and automatically calibrates to filter background radiation.

(2) Operation.

(a) The detector alarm may be set to provide an audio or vibration alarm.

1 Audio alarm: frequency of beeps increases based upon radiation strength.

2 Vibration alarm: frequency of vibration pulses increases based upon strength.

(b) The NukeAlert alarm will activate when gamma radiation exceeds the natural background levels. The alarm will be visually displayed (Light Emitting Diode [LED] window on the top left of the unit) in levels from 1 (low level of gamma particles present) to 9 (high level of gamma particles present), and will also change to a more intense color.

(c) If the unit is unable to achieve detection mode for any reason, a "FAIL" indicator will be displayed. The NukeAlert will continually display each character in sequence: "F," "A," "I," "L." If failure mode occurs (most likely due to a significant change in location of operation), turn power off and then back on to allow the unit to recalibrate.

(d) Battery replacement.

1 The LED window displays “L” when the battery is low and needs to be replaced.

2 Batteries are to be replaced with two AA Alkaline batteries.

3 The battery life is two years (on 8 hours in detection mode, off 16 hours, each day).

4 Batteries should be changed annually during the 118 process.

5 The NukeAlert detector should be turned off at the end of each shift.

(e) Maintenance issues or concerns regarding the NukeAlert Model 951 should be directed to CVS, Hazardous Materials Unit, at (916) 843-3400.

(3) Incident Management.

(a) When the NukeAlert alarm activates, safety shall be the primary factor considered in any action. The device is sensitive to many different types and strengths of radiation fields. Alarm activation shall be followed up for confirmation and resolution.

(b) A NukeAlert alarm shall be verified in all cases by the use of an RRK, which shall be used in accordance with this chapter and Chapter 2 of this manual.

(c) The detector may be triggered by persons who have had radiopharmaceutical procedures. Discretion should be used in resolving these situations.

(d) Situations of a suspected illegal nature, or without sufficient information to verify, should be treated as a hazardous materials incident.

1 Procedures as outlined in Chapter 2 of this manual shall be followed.

2 The DRSO may be contacted through ENTAC for assistance and specific instructions on procedures.

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ANNEX A

CHP 132, RADIOACTIVE MATERIALS DETECTION LOG

STATE OF CALIFORNIA
DEPARTMENT OF CALIFORNIA HIGHWAY PATROL
RADIOACTIVE MATERIALS DETECTION LOG
CHP 132 (Rev. 9-15) OPI 062

AREA NAME				AREA NUMBER	MONTH	YEAR				
Otay Mesa CVEF				646	March	2016				
INCIDENT NUMBER	REASON FOR ALERT GAMMA	NEUTRON	ISOTOPE	CONFIDENCE LEVEL (%)	NO TRUCK	CHP 407F	CHP 133	CHP 407E	COMMENTS	NAME, ID #
01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	I-131, Cs-252	89%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Driver medical treatment is reason for Iodine; Shipping papers confirm Californium source.	Archuleta, C, 30001
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ANNEX B

CHP 133, SURVEY METER/DOSIMETER USE LOG

STATE OF CALIFORNIA DEPARTMENT OF CALIFORNIA HIGHWAY PATROL SURVEY METER/DOSIMETER USE LOG CHP 133 (Rev. 8-15) OPI 062 HPM 84.2, Chapter 10			
INCIDENT/INSPECTION LOCATION			
Santa Nella Platform Scale (N/B)			
AREA NUMBER	DATE AND TIME OF INCIDENT		
401	03/14/2016		
NAME OF USER	I.D. NUMBER OF USER		
Adam Yates	17543		
SURVEY METER USAGE			
POWER TIME ON	POWER OFF TIME	BACKGROUND READING	
0517	0553	0.02	mRH
DOSIMETER USAGE			
POWER TIME ON	POWER OFF TIME	ACCUMULATED DOSE	
0517	0553	0.17	mR
Destroy Previous Editions Chp133_0815.pdf			

STATE OF CALIFORNIA DEPARTMENT OF CALIFORNIA HIGHWAY PATROL SURVEY METER/DOSIMETER USE LOG CHP 133 (Rev. 8-15) OPI 062 HPM 84.2, Chapter 10			
INCIDENT/INSPECTION LOCATION			
AREA NUMBER	DATE AND TIME OF INCIDENT		
NAME OF USER	I.D. NUMBER OF USER		
SURVEY METER USAGE			
POWER TIME ON	POWER OFF TIME	BACKGROUND READING	
			mRH
DOSIMETER USAGE			
POWER TIME ON	POWER OFF TIME	ACCUMULATED DOSE	
			mR
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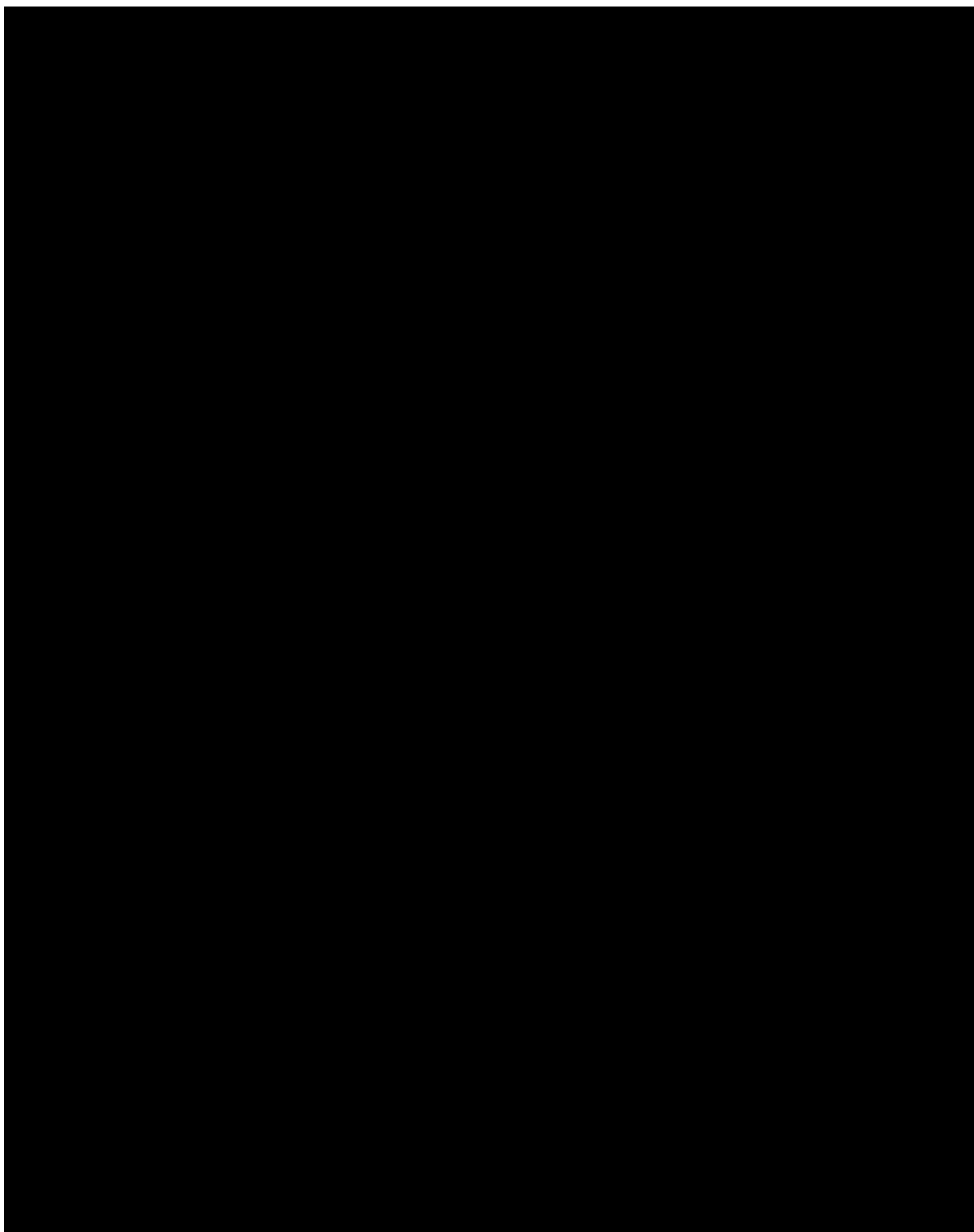
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INCIDENT/INSPECTION LOCATION			
AREA NUMBER	DATE AND TIME OF INCIDENT		
NAME OF USER	I.D. NUMBER OF USER		
SURVEY METER USAGE			
POWER TIME ON	POWER OFF TIME	BACKGROUND READING	
			mRH
DOSIMETER USAGE			
POWER TIME ON	POWER OFF TIME	ACCUMULATED DOSE	
			mR
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AREA NUMBER	DATE AND TIME OF INCIDENT		
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SURVEY METER USAGE			
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DOSIMETER USAGE			
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ANNEX C

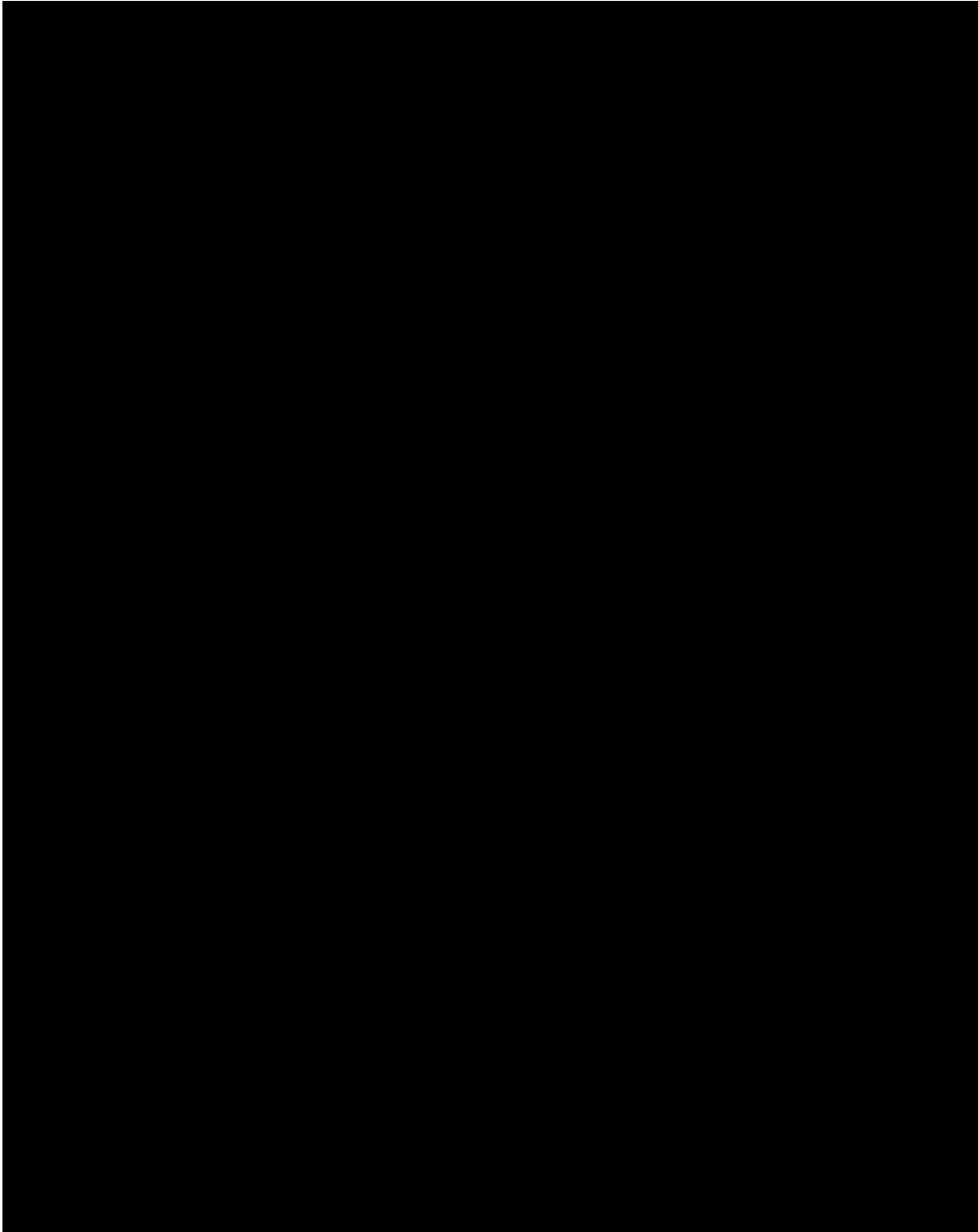
RADIATION AREA MONITOR ALARM FLOW CHART



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ANNEX D

RADIATION PORTAL MONITOR ALARM FLOW CHART



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