

SAUDI ARABIAN OIL COMPANY (Saudi Aramco)
GENERAL INSTRUCTION MANUAL
G. I. NUMBER Approved

7.026

ISSUING ORG. LOSS PREVENTION DEPARTMENT

ISSUE DATE

03/30/2009

REPLACES

11/28/1993

SUBJECT CRANE AND HEAVY EQUIPMENT INCIDENT REPORTING PROCEDURES

APPROVAL

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1.0 PURPOSE

To specify crane and heavy equipment incident notification, investigation, and reporting requirements.

2.0 DEFINITIONS

- ** 2.1 Company Representative: Saudi Aramco employee who has direct responsibility for the activities of a contractor (e.g., Saudi Aramco project engineer, drilling foreman, maintenance engineer).
- 2.2 Equipment: Any or all types of equipment specified in Section 4.0.
- * 2.3 Incident: Event where unintentional contact is made by equipment, or its load, with personnel, structures, or other equipment causing injury or property damage.
- ** 2.4 Proponent Manager: Saudi Aramco department head who is responsible for the area where the incident occurred.

3.0 REFERENCES

- GI 6.001 Notification Requirements for Incidents (Including Fires)
- GI 6.003 Guide for Committees Investigating Major Incidents or Engineering Reviews of Other Incidents
- GI 6.005 Reporting, Investigation and Recording of Injuries/Occupational Illnesses
- GI 6.007 Reporting of Contractor On-Job Injuries/Occupational Illnesses
- GI 6.029 Reporting and Recording of Motor Vehicle Accidents
- GI 7.025 Heavy Equipment Operator Testing and Certification

4.0 SCOPE

- ** 4.1 The requirements of this General Instruction (GI) apply to incidents involving cranes and heavy equipment operated within Saudi Aramco (SA) facilities, SA jobsites outside of operating facilities,

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and off SA property under a SA contract. Both Saudi Aramco and contractor crane and heavy equipment incidents are included in the scope of this GI.

* 4.2 The requirements of this GI shall apply to incidents involving all types of cranes and heavy equipment including, but not limited to, the following:

- Earth moving and compacting equipment: bulldozers, graders, backhoes, front end loaders, skid loaders (“bobcats”), earthmovers, tractor-scrapers, rollers, excavators, traxcavators, gradalls, dump trucks, draglines, etc.
- Hoisting equipment: mobile cranes, tower cranes, overhead cranes, gantry cranes, pedestal cranes, jib cranes, winches, hoists/tuggers, come-a-longs, jacks, jack-and-slide equipment, sideboom pipe layers, boom trucks (articulating, telescoping), etc.
- Personnel lifting equipment: manlifts (hydraulic, scissor, telescoping), elevators, aerial baskets (bucket trucks), crane suspended personnel platforms (manbaskets), offshore personnel carriers (“Billy Pughs”), etc.
- Material handling equipment: forklifts, telehandlers, pipe loaders, etc.
- Construction support equipment: asphalt pavers, concrete pump trucks, skid-mounted support equipment (e.g., generators, air conditioning units), etc.

** 4.3 Heavy equipment being driven as a vehicle (e.g. on a road or in the desert) that is involved in a Motor Vehicle Accident (MVA) is not included in the scope of this GI and the incident shall be reported in accordance with GI 6.029.

5.0 NOTIFICATION, INVESTIGATION, AND REPORTING PROCEDURES

(See Supplement 7.026-1 for the crane and heavy equipment incident notification and reporting flowchart)

* 5.1 Immediate Notifications

5.1.1 If emergency response (e.g., fire, medical) is needed, the equipment operator shall immediately call 110 or the appropriate number if calling from a mobile or outside phone (see the Saudi Aramco Safety Handbook) to report any crane or heavy equipment incident. He shall then report the incident to his supervisor. However, if the equipment operator is physically unable to report the incident (e.g., because he is injured), a co-worker shall immediately call 110 and also report the incident to the operator’s supervisor or Company Representative.

5.1.2 If the equipment operator is a Saudi Aramco employee, his supervisor shall immediately notify his division head. However, if the equipment operator is a contractor employee, his supervisor shall immediately notify his Saudi Aramco Company Representative. The Company Representative shall immediately notify his division head.

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5.1.3 The division head shall notify the proponent manager responsible for the area where the incident occurred and the area Loss Prevention division superintendent within one hour of being informed of the incident.

5.1.4 For an incident involving a crane or other heavy equipment owned or leased by the Saudi Aramco Roads and Heavy Equipment Department (R&HED), the division head shall notify the R&HED area heavy equipment division superintendent within one hour of being informed of the incident.

5.1.5 Refer to GI 6.001 for additional incident notification requirements.

5.1.6 Equipment involved in an incident shall only be moved if it presents a hazard to personnel and/or property and only with prior approval of the proponent manager. Action shall be taken by the proponent to limit hazardous conditions when they exist.

* 5.2 Initial Incident Reporting

5.2.1 The division head shall electronically create and submit an initial “crane or heavy equipment” incident report using the SAP EH&S system within 24 hours of the incident.

5.2.2 Additional incident reporting shall be as specified in GI 6.001, GI 6.005, GI 6.007, and GI 6.029, as applicable.

* 5.3 Investigating Procedures

5.3.1 Upon receiving notification of a crane or heavy equipment incident, the area Loss Prevention division and the R&HED area heavy equipment division shall if warranted dispatch personnel to review the incident and provide advice on securing the incident scene and preserving evidence for later investigation.

5.3.2 The division head shall obtain written witness statements from the equipment operator, his supervisor, and any other witnesses within 24 hours of the incident.

5.3.3 Major incidents shall be investigated as per GI 6.003 (see GI 6.001 for definitions of incident categories). Moderate heavy equipment incidents and minor incidents that have the potential for serious loss or injury (as determined by the proponent manager) shall be investigated by an incident investigation committee. This committee is to be appointed by the proponent manager within 24 hours after the incident. Representatives shall be requested from the following, as appropriate:

- Chairman, from a neutral department, with relevant technical expertise
- Roads and Heavy Equipment Department (R&HED)
- Loss Prevention Department (LPD)

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to LPD to re-open the incident report so the needed changes can be made (e.g., email request to: *LPD-TSU-SG). The division head shall then update and re-submit the incident report in the SAP EH&S system.

6.0 CORRECTIVE ACTIONS

- * 6.1 The operator involved in a crane or heavy equipment incident shall immediately surrender his Saudi Aramco Heavy Equipment Certificate to his supervisor (if a Saudi Aramco operator) or to the Company Representative (if a contractor operator) until the investigation is completed (see GI 7.025). The heavy equipment operator shall not operate any heavy equipment for which he may be certified unless his heavy equipment certificate is returned to him.
- * 6.2 The operator involved in a crane or heavy equipment incident shall be required to pass the Porto-Clinic Test, heavy equipment operator's physical (per Saudi Aramco Medical Services Organization [SAMSO] Medical Services Policy MSP-98, Attachment E, "Initial and Periodic Medical Examination of Saudi Aramco and Contractor Mobile Heavy Equipment Operators"), heavy equipment operator testing and certification (see GI 7.025), or any Saudi Aramco test covering the category or class of equipment he is to operate.

CONCUR:

MANAGER

Inspection Department

DATE: _____

CONCUR:

MANAGER

Roads & Heavy Equipment Department

DATE: _____

CONCUR:

GENERAL MANAGER

Training and Career Development

DATE: _____

APPROVED:

MANAGER

Loss Prevention Department

DATE: _____

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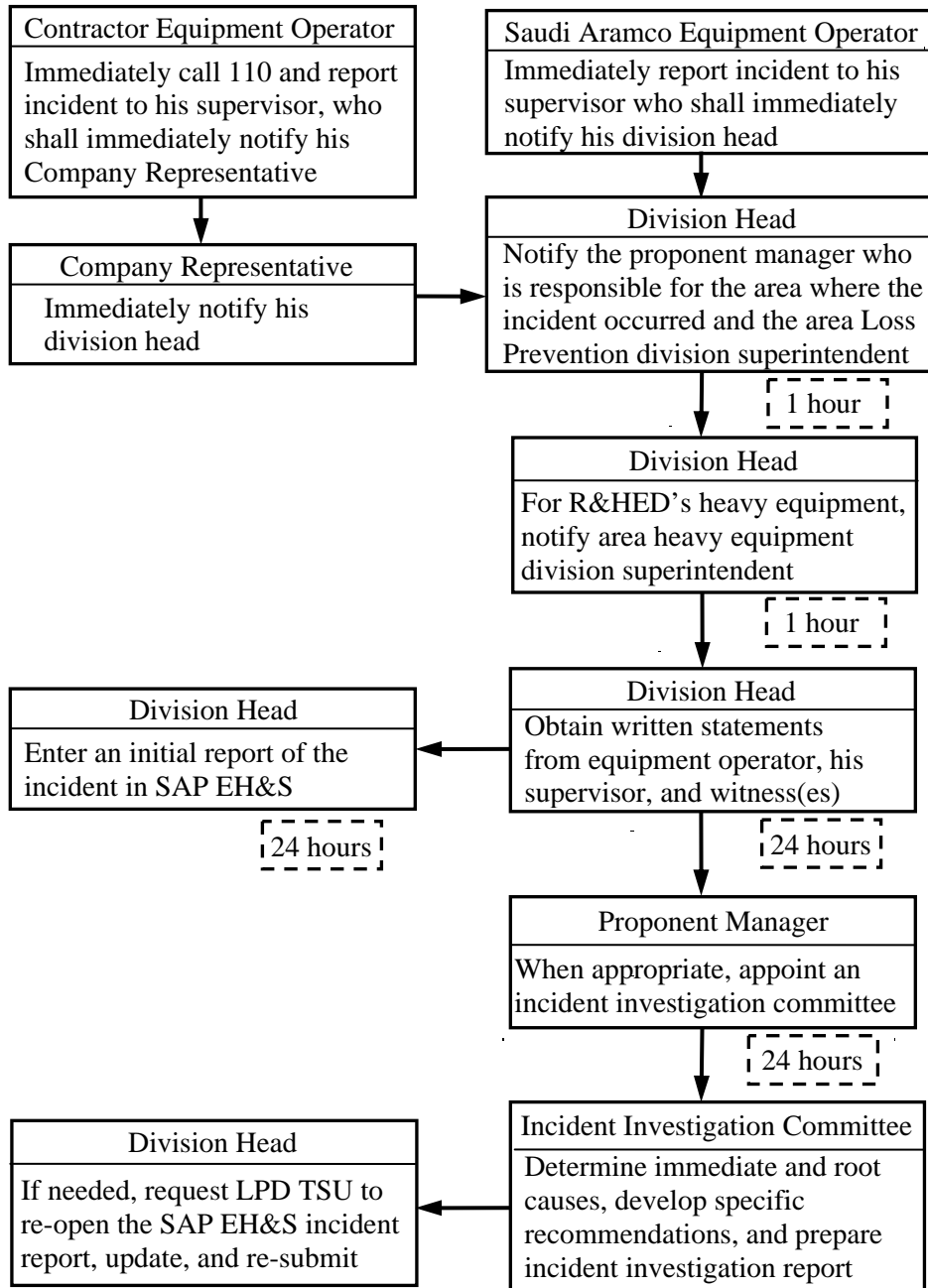
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SUPPLEMENT 7.026-1

CRANE AND HEAVY EQUIPMENT INCIDENT NOTIFICATION AND REPORTING FLOWCHART



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SUPPLEMENT 7.026-3, REFER TO SAUDI ARAMCO FORM 7522-1

MOBILE AERIAL BASKETS, ACCIDENT REPORT

Saudi Aramco 7522-1 (04/05)

G.I. 7.026
Supplement - 7.026-3

Date & Time of Accident		Type of Machine		Location of Accident		Report No. by Loss Prevention	
Operator's Name				Badge No.		Contractor/Saudi Aramco Dept.	
Proponent Dept.				Org. Code		Job No. or BI No.	
Investigated By				Badge No.		Department	
Investigator's Signature				Date		Estimated Cost of Repair or Replacement	
Signature of Operator's Superintendent				Date		Estimated Cost of Third Party Damage	
				Phone No.		Total	
						\$0	

Checklist <input type="checkbox"/> O. K. <input type="checkbox"/> Contributing Factor		BRIEF DESCRIPTION OF INCIDENT AND RECOMMENDATIONS TO PREVENT RECURRENCE	
OPERATIONAL	VALID SAG LICENSE SAUDI ARAMCO CERTIFICATE EXPERIENCE/TRAINING WORK PERMIT		
TYPE	OVERTURN POWERLINE CONTACT MANUEVER/TRAVEL OVERLOAD MECHANICAL/ELECTRICAL		
CAUSES	OUTRIGGERS BRAKES CONTROLS (BOTH ENDS) SAFETY BELTS FASTENINGS BASKET PIVOTS BOOM FLANGE CASTING BOOM SPLIT BEARING CAP BOOM STRUCTURE DIELECTRIC TEST (BOOM & BASKET) ROTATING STOP PYLON BASE SCREWS U-BOLTS - UNIT TO CHASSIS FLANGE BOLTS - BOOM ELBOW CABLE SHEAVES HOSE LEAKS MAINTENANCE DIRTY CAB WINDOWS LOOSE EQUIPMENT IN CAB OPERATING ON SOFT GROUND LEVELING SIGNALS TRAVELING WITH BOOM UP OPERATOR ERROR - EXPLAIN PUBLIC HIGHWAY PRECAUTIONS BOOM ANGLE CLINOMETER OTHER		
RESULTS	OPERATIONAL DISRUPTION PROPERTY DAMAGE SERIOUS INJURIES FATALITIES		

DISTRIBUTION: 1. Proponent Department Head 2. L.P. Area Office 3. L.P. Plng. & Tech. Svcs. Div.	4. Manager, Transportation 5. Personnel Department 6. Inspection Department	PLEASE ATTACH COPIES OF FORMS SA 3208 FOR PERSONAL INJURY, SA 1193 FOR VEHICLE ACCIDENT, SA 9094 FOR EQUIPMENT DAMAGE AND OTHER SUPPORTING DOCUMENTS.
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★ CHANGE

★★ ADDITION

NEW INSTRUCTION ☐COMPLETE REVISION ☒

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SUPPLEMENT 7.026-4, REFER TO SAUDI ARAMCO FORM 9094

**NOTIFICATION OF EQUIPMENT ACCIDENT,
NON-COLLISION OR ABUSES DAMAGE**

Saudi Aramco 9094 (12/2000) 797-600 (Roads & Heavy Equipment Department)

TO	Manager			Date
	Address			
THIS IS TO ADVISE THAT THE EQUIPMENT IDENTIFIED HEREIN HAS INCURRED DAMAGE AS DESCRIBED BELOW, AT THE TIME, DATE AND LOCATION IDENTIFIED.				
PLEASE INVESTIGATE THE ACCIDENT AND ADVISE CAUSES AND STEPS TAKEN TO PREVENT RECURRENCES				
Eqpt. No.	User Div./Unit		Org. Code	Location
Date of Accident		Time of Accident	Location of Accident	
BRIEF DESCRIPTION OF DAMAGE (By RHED Line Division CHED/SHED/NHED)				
RHED Inspector Name		Signature & Date	Supt's. Signature	Date
BRIEF DESCRIPTION OF ACCIDENT CAUSES (By User)				
CORRECTIVE ACTION IMPLEMENTED (By User)				
User Rep. Name	Signature & Date		Manager's Signature	Date
NOTE TO ARAMCO LOSS PREV. DEPT.: <input type="checkbox"/> THE ACCIDENT HAS BEEN REPORTED AND FORM 7522 COMPLETED; NO FURTHER ACTION REQUIRED. <input type="checkbox"/> FORM 7522 REPORT NOT RECEIVED; PLEASE FOLLOW-UP WITH EQUIPMENT USER DEPARTMENT TO SUBMIT REPORT.				

DISTRIBUTION:

 Original - User Dept. Head
 1st Copy - Manager, RHED
 2nd Copy - User Div. Head

 3rd Copy - Loss Prevention
 4th Copy - Line Div. (RHED)

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