



FATAL CRANE INCIDENT

Date Of Incident: 22.10.2007

Location : Brazil

Description of the accident:

During the construction activity of lifting and moving the steel structure that supports the conveyor at the Alegria 8/9 stockpile to a new location, the crane lost stability, rolled over onto its sides coming to a stop against a section of a conveyor gallery that was being pre assembled adjacent to the crane location due to the roll over, the crane cabin with the operator onboard, was crushed against the conveyor gallery structure pinning the operator in his cabin and causing fatal injuries.

No. of persons Injured:

One person was injured.

primary Root Causes:

The crane was out of radius for its set up and the weight of the load.

There was no rigging plan in place for the lift.

Wrong crane used for the lifting task.

Other possible news about the incident:

The crane operator had a history of overriding the crane limits and overloading the crane shown by computer records from the crane over 40 overloading incidents during October 2007;

The supervisor was confident with the crane operators ability and did not review the lift as per the site procedures.

The crane lift was not reviewed by an APS safety technician and approved as required by the JSA for the work activity;

Maximum lifting capacity-60 tonnes @ 2.5m radius.

Manufactured in September 2006.

SAFETY AND ENVIRONMENTAL EDUCATION FOR DEVELOPMENT

SEED

www.seedforsafety.in

Case Study 001



Crane condition:

The crane was inspected prior to starting on site and again on the 11th October 2007. There were no defects noted from either of these inspections and test and no defects noted on the daily inspection sheet by the crane operator during the two weeks prior to the incident occurring.

Corrective actions:

1. The computers in all site cranes (where fitted) have their data downloaded to investigate if the overloading of cranes is a general violation restricted to this crane operator.
2. Emergency bypass controls are to be locked in the off position at all times.
3. Crane operational data from the onboard computer is to be downloaded each month to review the safe use and operation of the crane for the month.

Photograph:

