CITIPOWER

SAFETY GRAM

Powercor AUSTRALIA

ABN 75 569 155 798

ABN 89 064 851 109

ESAA No: 35/2003
Safety Gram No. 13-03

AIM
To increase safety awareness affecting safe working practices and to provide Incident/Accident information sharing between centres.

TIME / DATE / LOCATION

- 1445
- 29th August 2003
- Mooroopna

BRIEF DESCRIPTION OF INCIDENT
A Live Line work crew had completed crimping a full tension compression sleeve on 7/3.00 AAC with a hex die hydraulic crimper utilising direct connected hydraulic tooling. In the process of releasing tension with the webbing lugall they noticed the conductor slipping out of the compression sleeve.

CONTRIBUTING FACTORS TO INCIDENT
1. The dies (stamped with conductor size marking 7/300-375 and A/F 18.0 see picture below) that were used were provided by the supplier with the view that they would be used with a:
   *FT 44R compression sleeve for 7/3.00 AAC and ASCR equivalent.
   *FT 50R compression sleeve for 7/3.75 AAC and ASCR equivalent.
2. However, Powercor continued the SECV practice of using the FT 50R type sleeve for both 7/3.00 & 7/3.25 AAC conductors. Using smaller size compression dies (A/F 16.6) for 7/3.00 AAC. This is detailed in both the Powercor Technical Standards (section DE) as well as the Lineworker's Handbook (Section 7 Tension Joints).
3. On the day of the incident the line workers picked up the dies and noticed that the dies had the appropriate conductor range and used the dies thinking they were correct for the application being used.
4. Previously this compression sleeve would normally of been crimped with a versa crimp tool which has no requirement to change dies as it is a pressure release device. With the introduction of the direct connected hydraulic tooling, which utilises hex die crimping, the identification of the correct die size now becomes critical.

Die markings showing conductor size on one side with the A/F measurement on the other side.

LOCAL ACTION TAKEN
Issue raised with the Safety & Works Practice Group to investigate and communicate outcomes.
Conductor sizing information to be removed from the die to prevent further confusion.
Full communication with the local work group identifying the problem and that people should be using

the A/F indication to identify the correct die size.

ADDITIONAL COMMENTS

The SECV decided to rationalise on the one conductor sleeve for the two sizes of conductor including the ASCR cable equivalents "6/1/3.00 & 6/1/3.75"

FURTHER ACTION

Suppliers of dies are to be made aware of the issue and will be asked to supply dies without conductor size markings.
Awareness raised with Powercor personnel and contractors with regard to this issue.
Personnel to be reminded to check the Powercor Technical Standards for the correct size dies (using the A/F measurement) when crimping conductors.

POTENTIAL SEVERITY (Fatality, Permanent Injury, Minor Injury)

Fatality and or injury.

- Please discuss at Work Group Meeting.
- Place a copy on all Health & Safety notice boards

Reported by: Robert Oldfield	**Phone** 0409 963 142	**Date:** 5/9/2003