

Introduction to GGSSA



Kathlene Oliver

ASEG Perth Branch Meeting

9th April 2014

What is GGSSA

Ground Geophysical Survey Safety Association est. in 2011 to advance safety in ground geophysics

The objective of the GGSSA is to promote the safe operation of ground geophysical surveys via

- Development of Guidelines for safe operation of ground geophysical surveys,
- Providing a centre for the confidential exchange of safety information, and
- Promoting safe and effective surveys practices



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Initial Focus of GGSSA

- Well publicised events within the industry has dictated the need to initially focus on **electrical** geophysical operations
 - Raise the awareness of the dangers of electrical surveys
- Equipment and procedural requirements
- Introduce a common standard for auditing



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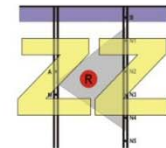
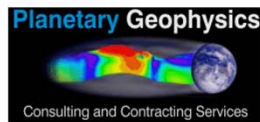
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Our Members & Sponsors

Sponsors



Active



Associative



GGSSA Committees

Executive Committee

- Katherine McKenna, GPX Surveys (Chair)
- Kathlene Oliver, CGG Ground Geophysics (Aust) Pty Ltd (Secretary)
- Kelly Keates, Zonge Australia
- Theo Aravanis, Rio Tinto Exploration
- Andrew Duncan, Electromagnetic Imaging Technology Pty Ltd
- Philip Palmer, Search Exploration Services

Technical Committee

- Brett Rose, Zonge Australia (Chair)
- Cam Mackey, Mackey Geophysics
- Andrew Slood, Fender Geophysics
- Mal Cattach, Gap Geophysics
- Bernard Gittens, NSW DPI



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Electrical Geophysics Guidelines

- Procedures & Equipment
- Documentation
- Training
- Audit



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Procedures & Equipment

- Equipment Selection and Suitability for Task
- General Safety
- Survey Design and Risk Analysis for Electrical Geophysics
 - Electrical shock
 - Fire
- Loop and Electrode Safety
 - Roles and Responsibilities
 - Transmitter and Generator Location and Setup
 - Transmitter Operation
 - Refuelling
 - Connection to other equipment
- Fuel Handling and Storage
- Communications and Signage



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Documentation

When planning for an electrical survey, the operator to consider the following list of documentation requirements as a minimum:

- General
 - Standard Operating Procedures
 - Emergency Response Plan
 - Material Safety Data Sheets
 - Electric Shock Protocol and Lightning Management Procedure
- Project specific
 - Risk Assessment
 - Emergency Response Plan
 - Location map with survey boundaries, co-ordinates and no-go areas



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Training

- The Active Member has overall responsibility to ensure that all its employees are trained and competent
- The Active Member will maintain a training register and appropriate programs



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Audit Structure

Internal

- A documented procedure to define the responsibilities, requirements for planning, conducting audits, establishing records and reporting results
- Records of the audits and their results shall be maintained
- Operator to conduct internal audits in between external certification audits

External

- Conducted 1st anniversary of compliance to these guidelines then every 2 years
- External auditor needs to be an electrical engineer on the National Professional Engineers Register (NPER)



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Focal Areas for 2014

- High risk activities in ground geophysics:
 - Driving
 - Fatigue
 - Helicopter Support Operations



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Annual Membership

Membership benefits include:

- GGSSA Guidelines
- GGSSA safety statistics
- Can nominate for Technical Committee
- Minutes of the Tech Committee meetings
- Voting rights
- Event notifications
- List of NPER engineers
- Noted on GGSSA website
- Use of GGSSA logo
- GGSSA Certificate of Membership

| exc. GST | Active | Associate |
|----------------|---------|-----------|
| Level 1 | \$1,200 | \$600 |
| Level 2 | \$500 | \$250 |

| | |
|------------------|---|
| Active | Commercial or industrial enterprises engaged in ground geophysics |
| Associate | Exploration/Mining companies, Manufacturers, Consultants, Universities or Government Depts. with an interest in the objectives of GGSSA |
| Level 1 | > 4 employees |
| Level 2 | 1-4 employees |



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Membership Responsibilities

- Uphold the Principles & Guidelines of the GGSSA
- Financial, i.e. Membership in good standing
- Submission of monthly WHS statistics lodged

Quarterly to an independent 3rd party



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Further information

- Contact the Executive Committee via info@ggssa.org
- Visit our website www.ggssa.org
- Visit our Facebook and LinkedIn Pages



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GGSSA
ADVANCING SAFETY IN GROUND GEOPHYSICS

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