Renewable Energy Safety, Health and Environment Rules and Regulations (RESHERR)

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Renewable Energy Management Bureau
Department of Energy

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OUTLINE

- BACKGROUND
- OBJECTIVE OF RESHERR
- SCOPE AND COVERAGE
- STATEMENT OF AUTHORITY
- SALIENT FEATURES OF THE RESHERR
- RESHERR CODE OF PRACTICE UPDATE
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BACKGROUND

The DOE in cooperation with the geothermal developers spearheaded in 1990 the formulation of the Geothermal Safety and Health Rules and Regulations (GSHRR).

The GSHRR was signed on November 8, 1991 under OEA Circular No. 91-11-06 by then OEA Executive Director Mr. W. R. De La Paz.

The GSHRR authorizes the DOE to conduct safety and health inspection in all geothermal field but only limited to the field operations (power plants not included).
BACKGROUND

In 1996, the DOE formed a Technical Working Group (TWG) to revise the original GSHRR, which will conform with the International Standards of Modern Safety Management or Loss Control Management.

The Revised Geothermal Safety and Health Rules and Regulations (RGSHRR) was signed by Secretary Mario V. Tiaoqui on February 2000 under Department Circular No. 2000-02-001 and supersedes the existing GSHRR.

The RGSHRR expands the authority of the DOE to oversee not only the safe operations of a geothermal steam field developer but also those of geothermal power plant operators.
BACKGROUND

With the passage of RA 9513 also known as the Renewable Energy Act of 2008, the RGSHRR was amended to incorporate other renewable sources of energy such as Biomass, Solar, Wind, Hydro and Ocean.

The new Circular known as Renewable Energy Safety Health and Environment Rules and Regulations (RESHERR) was signed by Secretary Carlos Jericho Petilla on November 21, 2012 under DC 2012-11-0009 and supersedes the RGSHRR.

Under Rule 2 Section 8 of the DC 2012-11-0009, the Bureau shall, in consultation with RE stakeholders and relevant government agencies, promulgate the Code of Practice of this Circular.
OBJECTIVE

The RESHERR serves as the policy guidelines in RE Operations, to ensure safety and protection against hazards to health, life and property as well as pollution of air, land and water in all the RE projects.
SCOPE AND COVERAGE

RESHERR applies to all Employers, Employees, contractors and other entities engaged in RE Operations in the Philippines.

RESHERR covers all activities related to exploration, development and utilization of RE resources and manufacturing, fabrication, and suppliers of locally-produced RE machineries, equipment, components and parts.
Pursuant to Republic Act No. 9513, otherwise known as the “Renewable Energy Act of 2008” and Section 5 of Republic Act No. 7638, otherwise known as the "Department of Energy Act of 1992"...
SALIENT FEATURES OF RESHERR

- RESHERR requires all RE developers and accredited manufacturers/fabricators:
  - To have a general safety, health and environment policy statement in writing shall be issued by the Employer or corporate organization to reflect management's positive attitude, support and commitment to effective leadership and program administration for safety, health and environment.
SALIENT FEATURES OF RESHERR

- RESHERR requires all RE developers and accredited manufacturers /fabricators:
  - To have a Safety, Health and Environment Committee

  Composition of Committee with more than one hundred (100) workers:
  - Chairman - Manager
  - Members
    - One (1) Foreman/Supervisor
    - Four (4) workers
    - Nurse/First-aider
    - Environmental Officer
    - Contractor Safety Officer (if applicable)
  - Secretary - Safety Officer
SALIENT FEATURES OF RESHERR

• RESHERR requires all RE developers and accredited manufacturers /fabricators:
  
  o To have Safety Officer duly registered with DOE-REMB

Qualifications (any of the following)
  
  - Duly licensed engineer with at least two (2) years actual experience in occupational safety and has attended the minimum training requirement on BOSH; or
  
  - Degree holder or two years in college with at least five (5) years actual experience in occupational safety and has attended the minimum training requirement on BOSH; or
  
  - Accredited as a Safety Practitioner by the DOLE.
SALIENT FEATURES OF RESHERR

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY
RENEWABLE ENERGY MANAGEMENT BUREAU
GEOTHERMAL ENERGY MANAGEMENT DIVISION

This
SAFETY OFFICER’S PERMIT
GEMD-2015-419
Valid until: October 01, 2019
authorizes
JOSEFINO C. ADAJAR
to act as Safety Officer while in the employ of
CLEAN ROCK RENEWABLE ENERGY RESOURCES CORP.
Natib and Daklan Geothermal Power Projects
Pursuant to Department Circular No. DC2012-11-0009
otherwise known as the
Renewable Energy Safety, Health and Environment Rules and Regulations
Given this 14th day of September 2018, Taguig City, Philippines

DIRECTOR MYLENE C. CAPONGCOL
Officer-in-Charge
SALIENT FEATURES OF RESHERR

- RESHERR requires all RE developers and accredited manufacturers /fabricators:
  - To have Safety Officer duly registered with DOE-REMB

Requirements for Minimum Number of Full-time Safety Engineer/Officers

<table>
<thead>
<tr>
<th>Number of Employees in RE Operations</th>
<th>1000 and above</th>
<th>500 to 999</th>
<th>less than 500</th>
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</thead>
<tbody>
<tr>
<td>Pre-Development/Exploration</td>
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<td>1</td>
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</tr>
<tr>
<td>Development</td>
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<td>2</td>
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</tr>
<tr>
<td>Construction</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Production</td>
<td>2</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Plant Operation</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
SALIENT FEATURES OF RESHERR

- RESHERR requires all RE developers and accredited manufacturers /fabricators:
  - Quarterly submission of statistical accident/incident/illnesses/diseases report to REMB within twenty (20) days following the end of each quarter using the prescribed form.
SALIENT FEATURES OF RESHERR

• RESHERR requires all RE developers and accredited manufacturers/fabricators:
  
  o *Notification to REMB within twenty-four (24) hours after occurrence of any, but not limited to, the following incidents:*

    a) Fatal accidents;
    b) Hospitalization of three (3) or more persons;
    c) Accidental detonation of explosives including blasting agents;
    d) Explosion or blowout;
    e) Accidental or over-exposure to ionizing radiation;
    f) Accidental exposure to Immediately Dangerous to Life and Health levels of toxic substances; and
    g) Property damages amounting to P1,000,000.00.
SALIENT FEATURES OF RESHERR

- RESHERR requires all RE developers and accredited manufacturers/fabricators:
  - To provide adequate safety and health training to its Employee to be conducted by DOLE-Accredited STO upon employment and on their being exposed to new or increased risks and shall be repeated periodically where appropriate.
RESHERR requires all RE developers and accredited manufacturers /fabricators:

- To provide to its Employees with the appropriate PPE, safety devices and equipment. All PPE to be used shall be of the approved design and construction appropriate for the exposure and the work to be performed that meets the minimum OSHS.

- To monitor and control the employees' exposure to workplace hazards, and shall maintain such records for each employee.
SALIENT FEATURES OF RESHERR

- RESHERR requires all RE developers and accredited manufacturers/fabricators:
  
  - To (1) create a Disaster Emergency Preparedness/Contingency Plan and Response Team, (2) Establish appropriate emergency action plan to be implemented in the event of serious and imminent danger, (3) Set up, communicate and maintain an appropriate emergency alarm system to alert or warn all persons likely to be affected by existing or imminent disaster conditions; and (4) Conduct emergency drills at least twice every year to ensure safe and orderly evacuation of personnel as well as timely and effective action of response team.
SALIENT FEATURES OF RESHERR

- RESHERR requires all RE developers and accredited manufacturers/fabricators:
  - To promote, protect and maintain the health and well being of its employees through the implementation of an occupational health program.
  - To provide the necessary medical and dental services and facilities for its employees.
SALIENT FEATURES OF RESHERR

• RESHERR requires all RE developers and accredited manufacturers /fabricators:
  
  o *All RE operations shall be conducted in accordance with existing environmental regulations as prescribed by the DENR and/or any other concerned agency.*
SALIENT FEATURES OF RESHERR

- Stiff administrative fines to ensure full compliance of all RE developers and accredited manufacturers and fabricators

1. Failure or late submission of quarterly statistical reports for incident/accident/illnesses/diseases:
   a. First Offense Fine of P10,000.00;
   b. Second Offense Fine of P20,000.00; and
   c. Third and Succeeding Offenses Fine of P50,000.00.
SALIENT FEATURES OF RESHERR

• Stiff administrative fines to ensure full compliance of all RE developers and accredited manufacturers and fabricators

2. Failure to register or secure/renew a permit for safety engineers/ officers:

   a. Within one (1) month after the expiration of the old permit Fine of P10,000.00; and

   b. After one (1) month after the expiration of the old permit - Fine of  P20,000.00 and additional fine of P 20,000.00 per month on the succeeding months.
SALIENT FEATURES OF RESHERR

• Stiff administrative fines to ensure full compliance of all RE developers and accredited manufacturers and fabricators

3. Failure to employ a qualified safety officer:

   a. Within six (6) months after the signing of service/operating contract and/or certificate of registration - Fine of P 100,000.00; and

   b. After the sixth (6th) month and every succeeding month an additional - Fine of P 20,000.00 per month.
SALIENT FEATURES OF RESHERR

• Stiff administrative fines to ensure full compliance of all RE developers and accredited manufacturers and fabricators

4. Failure to notify the Bureau using the fastest and efficient means of communication the occurrence of any incident/accident within the 24 hrs.

-Fine of P 10,000.00.
SALIENT FEATURES OF RESHERR

• Stiff administrative fines to ensure full compliance of all RE developers and accredited manufacturers and fabricators

5. Failure to correct any unsafe condition(s) noted by the Bureau's authorized representative.

a. First Offense Fine of P 100,000.00;
b. Second Offense Fine of P 200,000.00; and
c. Third and Succeeding Offenses Fine of P 500,000.00 and/or suspension of operation in the area affected until the unsafe condition(s) is/are rectified.
SALIENT FEATURES OF RESHERR

• Stiff administrative fines to ensure full compliance of all RE developers and accredited manufacturers and fabricators

6. Withholding or failure to provide pertinent data or information regarding the safety aspects of RE operations as required by the Bureau.

   a. First Offense Fine of P10,000.00
   b. Second Offense Fine of P20,000.00; and
   c. Third and Succeeding Offenses Fine of P50,000.00.
RESHERR CODE OF PRACTICE UPDATE

• Finalization of RESHERR Code of Practice (COP).

Public Consultations conducted in the following:

June 6, 2018 - Cebu City
June 18, 2018 - BGC, Taguig City
July 3, 2018 - Cagayan de Oro City
November 2018 - Writeshop
December 2018 - Target Issuance of COP
Draft Code of Practice

Section I. Safety, Health and Environment Policy Statement

Section II. Definition of Terms

Section III. Safety, Health and Environment Practices

A. General Safety

B. Workplace Monitoring and Control

C. Lock-Out, Tag-Out and Try Out (LOTOTO) Procedures

D. Electrical Works Requirements

E. Demolition Requirements

F. Working in Confined Spaces Procedures

G. Safe Work Permit Procedures

H. Hazardous Materials Handling and Storage

I. Compressed Gas Handling and Storage

J. Flammable Liquids Handling, Storage, Labelling and Disposal

K. Explosives Storage, Use and Transportation
Draft Code of Practice

Section III. Safety, Health and Environment Practices

L. Warehouse Safety
M. Ladder Safety
N. Lightning Protection
O. Facility Improvement Works
P. Motor Vehicle and Heavy Equipment Operations
Q. Hoist and Lifting Works Operations
R. Fire Hazards, Protection and Control
S. Scaffolding Safety
T. Machine Shop Safety
U. Tools, Equipment and Machinery Operations
V. Machine Guarding
W. Biological Safety
X. Emergency and Disaster Management
Draft Code of Practice

Section III. Safety, Health and Environment Practices

Y. Communication
Z. Incident Reporting and Investigation
AA. Health, Environment and Safety Plan
BB. Geohazards Requirements

Section IV. Power Plant and Control Room Safety

A. Power Plant
B. Control Room Safety
C. UPS and Battery Bank Room Requirements
D. Electrical Power Facilities and Equipment Repair and Troubleshooting
WAY FORWARD

- Capacity Building for REMB technical personnel.
- Continuous RESHERR Compliance Audit to all RE Developers.
Thank You!