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| ArcelorMittal Health & Safety AM Safety ST 001 v0 - Isolation | <h1 style="text-align: center;">Isolation</h1> <h1 style="text-align: center;">Instructions</h1> |  ArcelorMittal |
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Document Information

Short description: This standard applies to all sources of hazardous energy and hazardous substances

Scope: Group Companies will, as a minimum, follow the prevailing local regulations for all work requiring the isolation of sources of energy. Where this ArcelorMittal standard is more demanding, then it will apply.

This standard applies to all sources of hazardous energy and hazardous substances.

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| Business Owners: Frank HAERS | Creation date (first version): 10.12.2007 |
| Writer (prepared by): Frank HAERS | Review date (new version): 01.03.2012 |
| Reviewed by : Frank HAERS | Implementation Date: 24.12.2007 |


Version History

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Reference Documents


| Reference or date | Title |
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Validation

| Validated by | Position | Validation Date | Signature |
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| Frank HAERS | VP, Head Corporate Health and Safety | 01.03.2012 |  |

Approval

| Approved by | Position | Approval date | Signature |
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| Health and Safety Committee | / | | |

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| <p>ArcelorMittal Health & Safety</p> <p>AM Safety ST 001 v0 - Isolation</p> | <h1 style="text-align: center;">Isolation Instructions</h1> |  <p>ArcelorMittal</p> |
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1. Scope

- 1.1. Group Companies will, as a minimum, follow the prevailing local regulations for all work requiring the isolation of sources of energy. Where this ArcelorMittal standard is more demanding, then it will apply.
- 1.2. This standard applies to all sources of hazardous energy and hazardous substances.

2. Definitions.

2.1. Hazardous energy:

- 2.1.1. Electrical, Pneumatic, Hydraulic, Stored (springs, batteries), Potential (by virtue of position), Heat (hot water, steam), Radiation.

2.2. Hazardous substances:

- 2.2.1. Gases, Vapours, Liquids, Dusts with the potential to cause injury or illness, e.g. toxic, corrosive, flammable.

2.3. Competent person:

- 2.3.1. Whenever a piece of equipment is to be isolated, there must be at least one person coordinating the Isolation Procedure. No person may coordinate the isolation for a piece of equipment unless s/he is competent to carry out the Isolation Procedure. Where one person is isolating, then this person must be competent.

3. Isolation Procedure:

- 3.1. All equipment must have written procedures for isolation developed from a risk assessment. These procedures will set out how the equipment is to be made safe and kept safe. It will include, for example: decontamination; venting of stored energy; securing of rotors or fan blades; chocking of vehicles, disconnecting, blocking or bleeding of equipment, cables, pipes and vessels. It will also show the isolation points for lockout and test procedures as well as the procedure to remove another person's lock/tag.
- 3.2. No isolation procedure is deemed as meeting the requirements of this standard that relies on shutting off emergency stops or control power; isolation of electrical sources shall be at the primary power source or through the use of a control reliable isolation device.
- 3.3. Before any work is begun on equipment, a competent person must first ensure that it is made safe in accordance with the Isolation Procedure.
 - 3.3.1. The competent person must first Lock out the energy source(s) and apply his/her Identification Tag. This will always be the first on and last off.
 - 3.3.2. Where isolation involves only one person, that person must be competent.
 - 3.3.3. Where there is a need for work to extend over multiple shifts or where there are two or more people involved in the work, each person must ensure the system is locked and apply his/her identification tag. There must be a system where the equipment cannot be restarted without the removal of each person's lock/tag.
- 3.4. After locking and tagging, the area must be **cleared** of personnel before a **trial** step to ensure that the equipment has been isolated.

Isolation Instructions

- 3.5. Personal locks/tags may never be removed except by the person to whom they belong, other than in the presence of and under the supervision of the Department or Area Manager or his/her appointed nominee, and in accordance with a written procedure.

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