Health & Safety

Safety Management

Samsung Electronics places heavy emphasis on the safety of its employees’ safety and health. As such, the company continually strives to keep health and safety policies through careful monitoring and improvement procedures meant to guarantee the safest work environment possible. As part of this monitoring practice, Samsung identifies potential safety hazards and proactively fixes corresponding problems.

Health Program for Employees and Safety Initiatives

Health Program

Environmental Accident Response Systems

Samsung Electronics has prepared scenarios that include proactive countermeasures for environmental pollution, toxic chemical spills, fires, explosions, and natural disasters. It conducts regular emergency drills in order to prepare employees and minimize potential damage. In the event of an environmental accident, Samsung deploys additional crisis response teams that block the spread of damage by implementing prepared emergency measures.

In order to ensure safe and immediate worker evacuation in the case of a crisis, regular drills and emergency medical treatment demonstrations are carried out for all company staff. Following any accident and its subsequent emergency response, Samsung analyses the accident’s cause and takes all necessary preventive measures going forward.

Employee Injury Management

Samsung conducts risk assessments according to OHSAS18001 (Occupational Health and Safety Assessment Series) in all of production facilities, and continues to improve the work environment. Samsung also conducts regular education programs to increase the awareness of Health and safety among its workers and run emergency relief system. While the accident rates happened during work hours remained the same compared with last year, accidents happened during non-work hours such as sports activities take 71% of total accidents. Thus, Samsung is establishing safety guidelines for all leisure activities within the company.

Environment and Safety risk Assessment

Samsung Electronics works to preserve the environment by reducing harmful pollutants. Samsung conducts regular environmental impact studies and strictly complies with the regulations and guidelines of international organizations such as the United Nations and environmental NGOs.

Emergency Response Procedure

Information collection > Risk Analysis > Take Action > Monitoring

- Accident Rate (Unit: %)
  - Non Work-related accidents: 71%
  - Work-related accidents: 29%

Preventive Measures

Employee Injury Management

- Accident, Document
- Emergency Measures
- Investigation & Cause Analysis
- Counter Measures
- Preventive Measures
Despite every effort to maintain accident-free workplaces, a Samsung Electronics chip plant in Hwasan experienced a hydrofluoric acid leak at the beginning of 2013. Investigations are ongoing to determine the exact cause of the accident, and the company pledges to take preventative measures that will avoid the recurrence of such an accident and enhance its communication channel with local communities.

### The Cause of the Accident and Investigations

Present investigations have determined that the hydrofluoric acid leak was most likely due to faulty valve gaskets on the hydrofluoric acid storage tank. Official investigations by the authorities, the Ministry of Labor and Employment, and the Ministry of Environment have not yet been concluded. The company will readily evaluate these third-party results and take all necessary measures to overhaul the plant’s systems. According to results from the National Institute of Environmental Research, which has thoroughly analyzed the air in and around the Hwasan plant, hydrofluoric acid did not spread outside the plant premises. Samsung Electronics plans to enhance the precautions in its plants as a result of this accident in commitment to both workplace and environmental safety.

1. **Organizational Enhancement**

   Samsung Electronics has reinforced its organizational capacity in the fields of environmental protection and safety promotion. In March 2013, Samsung Electronics set up a new environmental organization that convenes company safety experts from both Gihueng and Hwasan. The new organization, headed by leadership at the executive level, has appointed two experts in semiconductor manufacturing and production to manage the two chip plants. Once matriculated, this new leadership will work to transform the plants into exemplary workplaces in terms of environmental safety.

2. **Overhaul of Standards for Plant Construction and Maintenance**

   Samsung Electronics will complete an overhaul of its internal standards and procedures for engineering, construction, and maintenance at its production facilities by June 2013 in an effort to ensure that the standards meet requirements of global entities such as AEM, ANSI, and DIN. The company will launch training programs on the control of hazardous substances that will be mandatory for every applicable employee. Samsung will also establish an internal certification system and train specialists to carry out long-term systematic improvements in this area. In addition, Samsung will reorganize its collaboration with public agencies in emergency cases and carry out biannual disaster drills with these agencies.

3. **Strengthened Internal Monitoring**

   Samsung Electronics has bolstered its internal inspection processes, placing heavy emphasis on areas of past accidents such as plumbing. The company will set up a special organization charged with plumbing inspections before the end of the first half of 2013. In addition, Samsung will request that government agencies conduct regular and unannounced audits of company facilities to inspect for proper workplace maintenance. The company will also intensify its 24-hour monitoring of gas and chemical leaks at both Gihueng and Hwasan worksites as well as its offsite control center.

4. **Strengthened Communication with Local Communities**

   Samsung has formed a council charged with plumbing inspections before the end of the first half of 2013. In addition, Samsung will request that government agencies conduct regular and unannounced audits of company facilities to inspect for proper workplace maintenance. The company will also intensify its 24-hour monitoring of gas and chemical leaks at both Gihueng and Hwasan worksites as well as its offsite control center.

### Material Issue

**Improvements**

- **1. Organizational Enhancement**
- **2. Overhaul of Standards for Plant Construction and Maintenance**
- **3. Strengthened Internal Monitoring**
- **4. Strengthened Communication with Local Communities**

### Samsung's Wellness Programs

**Wellness Programs**

- **Onsite Company Clinics**
  - Clinic (Occupational, internal medicine, Family Practice)
    - Routine Medical Treatment
    - Cold, indigestion
    - Vaccination
    - Hepatitis B, tetanus, influenza
    - Emergency Services
    - Dental & Acupuncture
  - Prevention of Musculoskeletal Disease resulting from bad posture
    - Musculoskeletal Prevention Center Exercise programs
    - Stretching exercise broadcasted twice daily
    - Ergonomic work station improvements to ergonomic soundness of manufacturing processes
  - Prevention of Musculoskeletal Diseases
    - Preventive care
    - Professional Counselors
      - Stress assessment heart rate variability and biofeedback stress tests
      - Therapy for sleep disorders and depression
      - Light therapy
      - Family relations counseling and communication program with spouses and children

**Total Healthcare Program**

Samsung Electronics plans to set up total healthcare program to provide suitable medical service to the employees.

**Total Health Care**

- **Medical Therapies**
  - Cerebral & cardiovascular disease risk assessments
  - Musculoskeletal disease risk factor examinations
  - Work-related stress assessments

**Wellness Programs**

- **Onsite Company Clinics**
  - Obesity prevention and non-smoking, etc.
  - Obesity prevention and non-smoking, etc.
  - Mental health programs

**Onsite Company Clinics**

- **Obesity Clinic**
  - Obesity level test, body mass indices analysis, aerobic endurance evaluation
  - Walking Paths Promote regular exercise
  - Low-calorie Menus Encourage balanced diets

**Musculoskeletal Disease**

- Prevention of Musculoskeletal Disease resulting from bad posture
  - Musculoskeletal Prevention Center Exercise programs
  - Stretching exercise broadcasted twice daily
  - Ergonomic work station improvements to ergonomic soundness of manufacturing processes

**Mental Health Program**

- **Professional Counselors**
  - Stress assessment heart rate variability and biofeedback stress tests
  - Therapy for sleep disorders and depression
  - Light therapy
  - Family relations counseling and communication program with spouses and children

**Ergonomic Management Processes**

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<th>Work Environment Assessment</th>
<th>Medical Analysis</th>
<th>Prevention</th>
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<td>Hydrostatic work environment improvement records and efforts</td>
<td>Treatment of musculoskeletal diseases</td>
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