Advancing Risk Management on Multiple Fronts

Hitachi's Approach

Changes to our operating environment from such factors as the globalization of the economy and advances in and spread of information and communications technology (ICT) lead not only to the expansion of business opportunities but also to the diversification of risks to our operations.

We have built a diverse risk management system under which we carry out risk analysis to accurately gauge ongoing economic and social changes and use the insights gained to take preventive measures and ensure a rapid response to issues that may arise unexpectedly. As a company deeply involved in infrastructure projects in countries and regions around the world, we strive to minimize risks to society from our operations. Measures include those to ensure the stable supply of our products and services, further tighten our information security, and reinforce business continuity plans (BCP).

Reinforcement of Risk Management System

The entire Hitachi Group is reinforcing its risk management system to address increasingly globalized and complex risks.

Under Hitachi, Ltd.'s head of risk management, each business operation assigns an executive as its risk management officer to manage risks mainly concerned with compliance, export control, disasters, and crime, and to respond adequately in coordination among the entire Group. Furthermore, Hitachi is building a comprehensive risk management system that contains standards and procedures to objectively evaluate different risks that may affect business.

Stable Provision of Products and Services

Creating BCPs in Key Operations Worldwide

Given the close relation of our business to social infrastructure, we are enhancing our BCPs to ensure that the impact of risks does not disrupt our business and thereby significantly affect society. In December 2006, we issued the *Hitachi Group Guidelines for Developing Business Continuity Plans* in Japanese. In fiscal 2010 these were translated into English and Chinese for distribution to all Hitachi Group companies worldwide to ensure our response readiness for large disasters and other risks.

When the Great East Japan Earthquake struck in March 2011, our BCPs enabled quick responses and swift decision making. However, issues emerged including identification of secondary and other suppliers, cloud storage and multiplexing of production information, and the need to secure alternate transportation and fuel sources.

Based on the lessons learned from this disaster, in October 2011 we released and distributed new BCP guidelines for departmental implementation to further improve our BCPs. Hitachi Group operations in Japan completed their preparation and review of BCPs, based on applicability to their operations, by the end of fiscal 2011. BCPs for large earthquakes and novel strains of influenza have been prepared for 49 Hitachi, Ltd. business sites and 96 Group companies.

On top of these efforts, since fiscal 1998, Hitachi, Ltd. has held annual earthquake drills simulating a major seismic event at key operations in Japan. In November 2015, Hitachi Automotive Systems held coordinated drills at its head office and business sites in the cities of Sawa, Atsugi, and Fukushima, where managers in charge of their divisions confirmed the action plans in emergency situations based on BCPs.

In fiscal 2013, Hitachi appointed personnel in charge of risk-response policies at its main overseas bases and around 300 companies prepared BCPs with the goal of completing them for key operations by the end of fiscal 2013. These BCPs are aimed at strengthening our ability to respond to business risks, including large disasters, novel strains of influenza, political instability, and social disruption, as well as acts of terrorism. Moving forward, we intend to further expand the scope of our BCPs.

Hitachi Group Guidelines for Developing Business Continuity Plans (department version).

Earthquake simulation drill.

Creation of Procurement BCPs

We have a deep involvement in social infrastructures in places where the suppliers who are our business partners can be affected by major earthquakes and other natural disasters.

These disasters can heavily impact not only our business operations and those of our suppliers but also society as a whole. To minimize this impact, the procurement divisions in key Group and in-house companies in Japan have created procurement business continuity plans (BCPs) that (1) standardize and use generic parts to make procurement as flexible as possible; (2) cultivate multiple suppliers; (3) distribute production across several locations; (4) budget inventory strategically; and (5) consider substitute products. To see whether or not procurement BCPs would be effective, we held desktop exercises to discuss in a group what should be done during and after a disaster, making further improvements as a result. In fiscal 2015, 118 Group companies outside Japan took similar steps to bolster procurement BCPs, thereby contributing to the continuation of Hitachi's global operations.

Improving Safety for Employees Sent to Dangerous Regions

Responding to the hostage incident in Algeria in January 2013, then President Hiroaki Nakanishi reinforced his policy in February 2013 of ensuring the safety of employees sent to countries and areas at higher risk. Survey missions of in-house and outside experts are now sent beforehand to areas at high risk of war, terrorism, and other threats. Even after employees are dispatched to such areas, we conduct additional local surveys every six months as a means of confirming the effectiveness of our safety policies. In fiscal 2014, survey missions were sent to several countries in Africa and the Middle East. In addition, we have introduced a range of safety measures in the light of recent terrorist incidents involving Japanese and other nationals, including providing timely alerts to employees. These and other steps underscore our commitment to ensuring the safety of our employees working around the globe. Hitachi is also contributing to safety measures at other Japanese corporations operating outside Japan. To help enhance collaboration between the private and public sectors in this area, Hitachi executives participated in the Council for Public-Private Cooperation for Overseas Safety organized by Japan's Ministry of Foreign Affairs. Since 2014 Hitachi has taken part in public-private kidnap incident preparatory training exercises.

Promoting Information Security

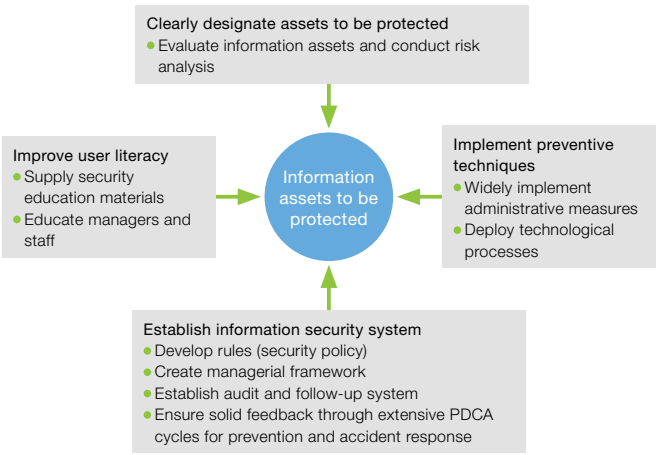
Implementing Rigorous Information Security

The Information Security Committee, chaired by the Chief Information Security Officer, determines our information security policies and procedures. The Information Security Promotion Council and other bodies convey decisions internally and to other companies in the Hitachi Group. Information security officers at business sites and companies ensure that these decisions are implemented in the workplace.

The Hitachi Group emphasizes two points in information security and personal information protection:

(1) Precautionary measures and prompt security responses
We classify assets to be secured and take safeguarding measures based on vulnerability and risk analyses. We also have an emergency manual for security breaches, based on the assumption that these are inevitable, and not just possible.
(2) Promoting stronger ethical and security awareness among data users
We have prepared a program tailored to Hitachi's various personnel levels and are working to raise the prevailing sense of ethics and security awareness through Group-wide e-learning. We are also conducting audits to identify and address problems early on.

Basic Approach to Information Security Governance



Education on Information Security

Consistently maintaining information security requires all parties to continually develop their knowledge of information handling and to remain strongly aware of the issues. For this reason, we hold annual e-learning programs on information security and personal information protection for all directors, employees, and temporary employees.

Nearly all of the roughly 40,000 employees at Hitachi, Ltd. participate in these programs. We provide specific additional training, with clear goals, that is geared to new employees and managers, and to information system administrators in particular. In 2012, we also began simulation training to educate employees about the increasing trend toward targeted e-mail attacks and other cyberattacks. Employees are sent examples of targeted e-mail to heighten their awareness of security through direct experience.

Our educational programs, available to Hitachi Group companies in Japan and other global regions, provide Group-wide education on information security and personal information protection.

Preventing Information Leaks

Hitachi, Ltd. has formulated the Three Principles for Preventing Leakage of Confidential Information to ensure the highest level of care for such information and to prevent leaks and other incidents involving it. Our policies ensure that if an incident does occur, damage is promptly minimized by contacting customers, reporting to government agencies, investigating causes, and acting to prevent any recurrence.

Hitachi Group companies take the following IT steps to prevent information leaks: using encryption software and secure PCs; employing electronic document access control and expiration processing software; maintaining ID management and access control by building an authentication infrastructure; and filtering e-mail and visited websites. In response to the recent spate of targeted e-mail attacks and other cyberattacks, we are participating in an initiative to share information between the private sector and the government. We are also enhancing our IT organization by adding more layers to our leak prevention procedures, including both entry and exit countermeasures.

To ensure the secure exchange of information with our suppliers, we review their information security measures based on Hitachi's own standards before allowing them access to confidential information. We have provided tools to suppliers (procurement partners) for security education and for checking business information on computers. In addition, we require suppliers to check and remove business information from personal computers to prevent leaks.

Three Principles for Preventing Leakage of Confidential Information

Principle 1
As a general principle nobody can take Confidential Information out of the Company's premises.

Principle 2
Any person taking Confidential Information out of the Company's premises due to business necessity shall obtain prior approval from the Information Assets Manager.

Principle 3
Any person taking Confidential Information out of the Company's premises due to business necessity shall put in place relevant and appropriate measures against information leakage.

Global Information Security Management

Hitachi Group companies worldwide reinforce their information security in line with our Global Information Security Administration Rules, which conform to the international ISO/IEC 27001 standard. These rules are distributed from the parent company in Japan to Group companies around the world. Other security measures include secure shared services and support from our regional headquarters in the Americas, Europe, Southeast Asia, China, and India.

Thorough Information Security Audits and Inspections

The Hitachi Group has developed its approach to security based on the "plan-do-check-act" (PDCA) cycle for its information security management system. We conduct annual information security and personal information protection audits at all Group companies and business units.

The president appoints officers to conduct independent audits. These officers are not allowed to audit their own units, underlining our commitment to fairness and objectivity in auditing. There are 238 Hitachi Group companies in Japan that conduct audits in the same way as Hitachi, Ltd. and all results are subject to confirmation. For Hitachi Group companies outside Japan, we use a "common global self-check" approach to ensure Group-wide auditing and inspections. We implement Confirmation of Personal Information Protection and Information Security Management annually for the voluntary inspection of business unit workplaces. We conduct monthly Confirmation of Personal Information Protection and Information Security Management assessments at 453 operations (as of March 2016) that handle important personal information. This regular control mechanism ensures ample safety management and implementation.