

The safety targets and results for FY2017 and safety targets for FY2018 are as listed below.

Item	Priority Issues (Target)	Implementation Status for FY2017	Evaluation	Planned Implementation Items for FY2018
Management System	1. Continuous improvement and implementation of the health and safety management system	<ul style="list-style-type: none"> • Communication by the plant manager and division heads of their commitment and active involvement • Formulation of the annual management plan based on the health and safety management system • Promotion of effective safety activities through substantial discussions during internal audits 	◎	<ul style="list-style-type: none"> • Communication by the plant manager and division heads of their commitment and active involvement (ongoing) • Appropriate implementation of the PDCA cycle¹ based on the health and safety management system • Promotion of effective safety activities through substantial internal audits (audit the PDCA cycle)
	2. Qualitative improvement of environmental safety audits	<ul style="list-style-type: none"> • Appropriate follow-up on the matters pointed out during environmental safety audits • Qualitative improvement of environmental safety audits at affiliated companies in the plant area 	◎	<ul style="list-style-type: none"> • Appropriate follow-up on the matters pointed out during environmental safety audits (ongoing) • Qualitative improvement of environmental safety audits at affiliated companies in the plant area (ongoing) • Active involvement at overseas manufacturing bases through guidance and auditing
	3. Thorough change management	<ul style="list-style-type: none"> • Improvement and review of the standards for change management at the plants • Confirmation of application of change management rules at the plants and thorough compliance with them 	◎	<ul style="list-style-type: none"> • Confirmation of application of change management rules at the plants and thorough compliance with them (ongoing) • Risk assessment at the time of 4M² change
Process Safety and Prevention Plan	1. Zero serious accident	<ul style="list-style-type: none"> • Achieved target of zero serious accident 	◎	<ul style="list-style-type: none"> • Zero serious accident
	2. Facility and process safety improvement	<ul style="list-style-type: none"> • Improve technology for hazard assessment and implement countermeasures by process risk assessment • Safety measures for non-routine work and unsafe operation as well as continuing to consider accident trouble cases • Application of Security Evaluation System by the Japan Safety Competency Center 	○	<ul style="list-style-type: none"> • Process risk assessment, including periodic reviews • Safety measures for non-routine work and unsafe operations, as well as continuing to consider accident trouble cases (ongoing) • Obtain and examine information on internal and external accidents and disasters related to one's division • Investigation of application of guidelines for the handling of combustible powder and liquids • Application of Security Evaluation System by the Japan Safety Competency Center (ongoing)
	3. Improvement of facilities and maintenance management	<ul style="list-style-type: none"> • Thorough investigation of equipment trouble causes, recurrence prevention and design technology improvement • Implementation and improvement of equipment maintenance (conservation management for aging piping and equipment through activities like planned repairs) 	○	<ul style="list-style-type: none"> • Thorough investigation of equipment trouble causes, recurrence prevention and design technology improvement (ongoing) • Improvement of equipment maintenance (inspection of airtightness between rupture disks³ and safety valves and systematic repair of old pipes and equipment)
	4. Reliable emergency response	<ul style="list-style-type: none"> • Handling for worst-case scenario measures for serious disasters and earthquakes • Maintenance of emergency-response criteria / manuals • Review and implement business continuity planning training 	○	<ul style="list-style-type: none"> • Consider estimating and minimizing damage if the worst situations such as serious accidents and massive earthquakes occur • Maintenance of emergency-response criteria/manuals (ongoing) • Review and implement business continuity planning training (ongoing)
	5. Plant security enhancement	<ul style="list-style-type: none"> • Strengthen prevention measures against external intruders 	○	<ul style="list-style-type: none"> • Strengthen prevention measures against external intruders (ongoing) • Provide visitors to the plants with risk information and inform them of evacuation methods if an accident or disaster occurs
Occupational Safety	1. Achieve zero accidents requiring an absence of a day or more	<ul style="list-style-type: none"> • The Shin-Etsu Group: three people • Shin-Etsu Chemical achieved its goal with a rate of zero 	△	<ul style="list-style-type: none"> • Achieve zero accidents requiring an absence of a day or more
	2. Rate of accidents not accompanied by an absence a day or more: 0.5 or less	<ul style="list-style-type: none"> • The Shin-Etsu Group achieved its goal with a rate of 0.50 • Shin-Etsu Chemical: 0.68 	△	<ul style="list-style-type: none"> • Rate of accidents not accompanied by an absence of a day or more: 0.5 or less
	3. Human error reduction	<ul style="list-style-type: none"> • Prevent accidents caused by human error 	○	<ul style="list-style-type: none"> • Prevention of accidents and disasters due to human errors (ongoing)
	4. Improve work safety	<ul style="list-style-type: none"> • Promoting "zero accident" activities (practiced Hazard prediction activities, pointing and calling, and 5S⁴ activities) • Implemented improvement and promotion of close-call incident proposals and improvement proposals (set promotion goals) • Implemented assured horizontal expansion of accident examples of the Group companies 	○	<ul style="list-style-type: none"> • Promoting "zero accident" activities (practiced Hazard prediction activities, pointing and calling, and 5S activities) (ongoing) • Implemented improvement and promotion of close-call incident proposals and improvement proposals (set promotion goals) (ongoing) • Implemented assured horizontal expansion of accident examples of the Group companies (ongoing) • Cultivate a safety culture in which rules and manuals are followed
	5. Review and reorganize work manuals and ensure strict compliance	<ul style="list-style-type: none"> • Implement of planned review of work manual maintenance • Work manual content enhancement • Confirm the compliance of work manuals 	◎	<ul style="list-style-type: none"> • Establishment of work and operation manuals (such as standard and non-standard ones and emergency response) • Make the content of work and operation manuals substantial (stronger involvement by managers) • Confirm the compliance of work manuals
	6. Work risk assessment	<ul style="list-style-type: none"> • Implement work risk assessment based on plans • Implement and follow up on the results of work risk assessment and matters decided • Risk extraction skill improvement 	○	<ul style="list-style-type: none"> • Implement work risk assessment based on plans • Risk assessment as stipulated in the Industrial Safety and Health Act • Risk assessment for dangerous and non-standard work at one's workplace • Appropriate reflection of risk assessment results in future work • Improvement of work risk assessment skills
	7. Safety measures of construction and non-routine work	<ul style="list-style-type: none"> • Clarify work instructions and procedures and implement hazard prediction activities • Apply thorough construction rules • Create and make thorough confirmation methods for pre-operation, work completion and recovery 	○	<ul style="list-style-type: none"> • Clarify work instructions and procedures and implement hazard prediction activities (ongoing) • Apply thorough construction rules (ongoing) • Clarification of responsibilities of divisions that request construction work and those which perform it, and reliable implementation of work for which they are responsible
	8. Training and drill promotion	<ul style="list-style-type: none"> • Planned implementation of education and training • Promote acquisition of qualifications 	○	<ul style="list-style-type: none"> • Plan promotion of education and training (ongoing) • Promote acquisition of qualifications (ongoing)
	9. Ensuring subcontracting safety	<ul style="list-style-type: none"> • Strengthen guidance on safety management for subcontractors and follow it up • Provide and review safety information such as the results of work environment measurements, danger and hazardous information (SDS) and work manuals 	○	<ul style="list-style-type: none"> • Stronger guidance for and follow-up on safety management at companies to which, as a manufacturer, the Company outsources its operations (ongoing) • Provide and review safety information such as the results of work environment measurements, danger and hazardous information (SDS) and work manuals (ongoing)
Occupational health	1. Create and maintain a comfortable workplace environment	<ul style="list-style-type: none"> • Implemented working environment measurements and promote working environment improvements based on the results • Implement chemical substance handling education and strict wearing of chemical protective equipment as well as confirmation of compliance status for wearing protective equipment • Appropriate implementation under the Industrial Safety and Health Law • Concrete activities to promote workplace communication 	◎	<ul style="list-style-type: none"> • Implemented working environment measurements and promote working environment improvements based on the results (ongoing) • Implement chemical substance handling education and strict wearing of chemical protective equipment as well as confirmation of compliance status for wearing protective equipment (ongoing) • Appropriate implementation under the Industrial Safety and Health Law (ongoing) • Appropriate reporting, communication, and consultation, as well as promotion of good communication
	2. Promote physical and mental health wellbeing	<ul style="list-style-type: none"> • Implement concrete guidance, etc., and effective utilization of health check results • Appropriate compliance with additional inspection criteria due to regulatory amendments • Promotion of specific activities to build mental and physical health (such as stress check) 	○	<ul style="list-style-type: none"> • Implement concrete guidance, etc. and effective utilization of health check results (ongoing) • Appropriate compliance with additional inspection criteria due to regulatory amendments (ongoing) • Promotion of specific activities to build mental and physical health (ongoing)

¹ PDCA cycle

One of the method to smoothly carry out management tasks such as production control and quality control in business activities. To improve business operating continually by repeating the four steps such as Plan (P) → Do (D) → Check (C) → Act (A).

² 4M

It is the first letter "M" of four words for man, machines, materials and methods.

³ Rupture disc

Pressure relieving device that operates reliably with a preliminarily determined setting pressure.

⁴ 5S

It is the first letter "S" of five Japanese words for seiri seton (organize and order things), seiso (cleaning), seiketsu (cleanliness), and shitsuke (bringing-up).

* Evaluation standards

◎: Goal achieved ○: Goal basically achieved △: 50% achieved ×: Far from achieved