



Question	Y	N	Comment
3. ลักษณะผลกระทบที่มีผลต่อสภาวะแวดล้อม และข้อมูล โดยสังเขป วิธีการจัดการของบริษัท			
( ) ปล่องสู่อากาศ (หน่วยงานได้รับผิดชอบ)			
- จำนวนจุดที่มีการระบายออก ..... จุด			
- ตำแหน่งใด / แหล่งกำเนิดใดบ้าง			
- วิธีการจัดการ / บำบัด			
- มีการตรวจวัดอย่างไร			
( ) ระบายสู่แหล่งน้ำ (หน่วยงานได้รับผิดชอบ)			
- มีการปล่อยออกนอกสถานประกอบหรือไม่			
- จำนวนจุดที่ระบายน้ำทิ้งออกนอกสถานประกอบ			
- น้ำเสีย (Source) มาจากส่วนใดของกระบวนการ (ห้องน้ำ, กระบวนการผลิต)			
- ชนิดของระบบบำบัดที่ใช้			
- มีการตรวจวัดอย่างไร			
( ) การจัดการขยะ (หน่วยงานได้รับผิดชอบ)			
- แ่งขยะเป็นกี่ประเภท			
- แต่ละประเภทจัดการอย่างไร			
- มีการขี้งถึงขยะอย่างไร			
( ) การจัดเก็บสารเคมี (หน่วยงานได้รับผิดชอบ)			
- การจัดเก็บสารเคมี น้่างัน และวิธีการขนย้าย เส้นทางขนย้าย			
( ) การปนเปื้อนลงดิน (หน่วยงานได้รับผิดชอบ)			
- โอกาสรั่วไหลของสารเคมี, น้ำมัน (การจัดเก็บ, การขี้ง, การขนย้าย, การถ่าย)			
- MSDS			



Question	Y	N	Comment
4. Context of the organization			
4.1 Understanding the organization and its context (หน่วยงานได้รับผิดชอบ)			
- Determine external and internal issue that are relevant to its purpose and that affect its ability to achieve the intended outcomes of its EMS			
- Include environmental condition			
- วิธีการระบุ context อธิบายโดยสังเขป			
- ปัจจัยภายนอก คือ .....			
- ปัจจัยภายใน คือ .....			
- สภาพแวดล้อม คือ .....			
- มีการนำข้อมูลดังกล่าวไปชี้บ่งความเสี่ยงอย่างไร (6.1.1)			
4.2 Understanding the needs and expectations of interested parties			
- Determine the interested parties that are relevant to the EMS			
- Determine the needs and expectation of these interested parties			
- ผู้มีส่วนได้ส่วนเสียแบ่งเป็นกี่กลุ่ม? ได้แก่?			
- ความต้องการของผู้มีส่วนได้ส่วนเสีย คือ ?			
- มีการนำข้อมูลดังกล่าวไปชี้บ่งความเสี่ยงอย่างไร (6.1.1)			
4.3 Determining the scope of the EMS			
- Maintain as documented information			
- Available to interested parties			
ขอบเขต .....			
เอกสาร .....			

Question	Y	N	Comment
5. Leadership			
5.1 leadership and commitment			
- Top management คือ .....			
- การมีส่วนร่วมในระบบ EMS เช่น ประกาศนโยบาย			
นำระบบ EMS ไปผนวกไว้กับ business process			
ขององค์กร, การให้ทรัพยากรในการทำระบบ,			
การสื่อสารความสำคัญของระบบ EMS ที่มีประสิทธิภาพ			
5.2 Environmental policy (กำหนดนโยบายโดยใคร)			
1. Environmental policy that			
- Appropriate to purpose and context of			
organization, including the nature, scale			
and environmental impacts of its activities			
product and services			
- Provide framework for setting envi. Obj.			
- Include a commitment to the protection			
of the environment, include prevention			
of pollution and other specific			
commitment relevant to the context of			
the organization			
- Include a commitment to fulfill its			
compliance obligations			
- Include a commitment to continual			
improvement of EMS to enhance			
environmental performance			
2. Maintain as documented information			
3. Communicated within the org			
4. Available to interested parties			
5.3 Organizational roles, responsibilities and authorities			
- Assign the responsibility and authority			
person (s)			
- Communicated within the org.			

Question	Y	N	Comment
6. Planning			
6.1 Actions to address risks and opportunities			
6.1.1. General			
- Establish, implement and maintain			
the process (s) needed to meet the			
requirement in 6.1.1 to 6.1.4			
- Determine the risk and opportunities			
related to its envi. aspects, compliance			
obligation, other issue and requirements			
identified in 4.1 and 4.2 that need to be			
addressed			
- Determine potential emergency situation			
including those that can have an envi.			
impact			
- Maintain documented information of			
1. risks and opportunities that need to			
be addressed.			
2. process needed			

Question	Y	N	Comment
6.1.2 Environmental aspects			
(หน่วยงานที่รับผิดชอบ)			
- Considering a life cycle perspective			
(raw material acquisition, design, production			
transportation/delivery, use, end-of-life			
treatment, final disposal)			
- Envi. aspect cover all activities, product			
or services include change (planned, new			
developments, new modified activities,			
product and services), abnormal condition			
reasonable foreseeable emergency situation			
- Maintain documentation information of			
1. Envi. aspect and impacts			
2. Criteria used to determine its significant			
envi. aspect			
3. Significant envi. aspect			
4. Process needed (refer 6.1.1)			
- Communicate its significant envi. aspect			
among the various levels and functions			

Question	Y	N	Comment
6.1.3 Compliance obligations			
- หน่วยงานที่รับผิดชอบ			
- Maintain documentation information of			
1. Process needed (refer : 6.1.1)			
2. Its compliance obligation			
- Determine and have access to the compliance obligation			
- Determine how these compliance obligation apply to the org.			
○ รง 4			
○ EIA			
○ ใบอนุญาตนำขยะออกนอกโรงงาน			
○ ทะเบียนบุคลากรด้านสิ่งแวดล้อม (อากาศ / น้ำ / กาก)			
○ รายงานปริมาณสารมลพิษที่ระบายออกจากโรงงาน (รว 1, 2, 3, 3/1)			
○ ใบอนุญาตนำเข้า ผลิต หรือมีฤทธิ์กัดกร่อน			
○ ใบอนุญาตจัดเก็บน้ำมันเชื้อเพลิง			
○ รายงานข้อมูลเกี่ยวกับสารกัมมันตรังสี (แบบ รง 7)			
○ ใบจดทะเบียนผู้ควบคุม และผู้ปฏิบัติงานประจำหม้อไอน้ำ			
○ รายงานข้อมูลเกี่ยวกับหม้อไอน้ำประจำปี			
○ .....			
○ .....			
○ .....			
- ข้อมูลโดยสังเขป วิธีการรวบรวมกฎหมาย (ช่องทางการได้มา และการติดตาม)			
6.1.4 Planning action			
- Take action to address its			
1. Significant envi. aspect			
2. Complince obligation			
3. Risk and opportunity			



Question	Y	N	Comment
6.2 Environment objective and planning to achieve them			
6.2.1 Environmental objective			
- Maintain documented information of envi. obj.			
- Taking into account the org's significant envi. aspect, associated compliance obligation, considering its risks and opportunities			
- Envi. obj shall be			
1. Consistent with the envi. policy			
2. measurable			
3. monitored			
4. communicated			
5. updated as appropriate			
6.2.2 Planning actions to achieve envi. obj			
- Can be Integrated into the organization's business process			
- Determine			
1. What will be done			
2. What resources will be required			
3. Who will be responsible			
4. When it will be completed			
5. How result will be evaluated.			
indicator for monitoring progress			

Question	Y	N	Comment
7. Support			
7.1 Resources			
องค์กรต้องกำหนดและจัดให้มีซึ่งทรัพยากรที่จำเป็นในการจัดทำระบบ			
7.2 Competence (หน่วยงานได้รับผิดชอบ)			
1. Determine the necessary competence ofบุคคลที่มีผลต่อ envi. performance รวมถึงความสามารถที่จะ fulfill its compliance obligation			
2. Ensure that these persons are competence on the basis of appropriate education, training or experience			
3. Determine training needs associated with its envi. aspects and its EMS			
4. Take actions to acquire the necessary competence, and evaluate the effectiveness of the action taken			
- ข้อมูลโดยสังเขป : การขึ้น่งความรู้ที่จำเป็น การอบรมที่จำเป็น			
7.3 Awareness			
- Ensure that persons doing work under the org. control are aware of :			
1. environmental policy			
2. significant envi. aspects and related actual or potential envi. impact associated with their work			
3. their contribution to effectiveness of EMS, including the benefits of enhanced envi. performance			
4. the implication of not conforming with the EMS requirements. Including not fulfilling the org.'s compliance obligation			
- ข้อมูลโดยสังเขป : กระบวนการสร้างจิตสำนึก			



Question	Y	N	Comment
7.5 Documented information			
7.5.1 General			
- Documented information required by this international standard			
- Documented information determined by the org. as being necessary for the effectiveness of the EMS			
7.5.2 Creating and updating			
- When creating and updating documented information, the org. shall ensure			
1. Identification and description			
2. Format and media			
3. Review and approval			
7.5.3 Control documented information			
- Documented information shall be controlled to ensure			
1. Available and suitable for use, where and when it is needed			
2. Adequately protected			
- Shall address the following activities			
1. Distribution, access, retrieval and use			
2. Storage and preservation, including preservation of legibility			
3. Control of change			
4. Retention and disposition			
- Documented information of external origin determined by the org. Shall be identified, as appropriate and controlled			

Question	Y	N	Comment
<p>8. Operation</p> <p>8.1 operational planning and control</p> <ul style="list-style-type: none"> <li>- shall establish, implement, control and maintain the processes needed to meet EMS requirements and to implement the action identified in 6.1 and 6.2 by               <ol style="list-style-type: none"> <li>1. establishing operating criteria for process(es)</li> <li>2. implementing control of the process(es) in accordance with the operating criteria</li> </ol> </li> <li>- shall control planned <b>changes</b> and <i>review the consequences of unintended changes</i>, taking action to mitigate any adverse effects, as necessary</li> <li>- shall ensure that <i>outsources</i> are controlled or influenced. The type to control or influenced shall be defined within the EMS</li> <li>- consistence with a life cycle perspective, the org. shall               <ol style="list-style-type: none"> <li>1. establish controls to ensure that its environmental requirement(s) is (are) addressed in the design and development process for the product and service, considering each life cycle stage</li> <li>2. determine its environmental requirement(s) for the procurement of product and services, as appropriate</li> <li>3. communicate its relevant environmental requirement to external providers, including contractors</li> <li>4. consider the need to provide info. about potential sign. envi. impacts associated with the life cycle stage</li> </ol> </li> <li>- shall maintain documented information to the extent necessary to have confidence</li> </ul>			

that the processes have been carried out as planned.

Question	Y	N	Comment
8.2 Emergency preparedness and response			
- Shall establish, implement and maintain			
the process needed to prepare for and			
respond to potential emergency situation			
identification in 6.1.1			
- What are emergencies indentified?			
- Do the org. prepare to respond by			
planning action to prevent to mitigate			
adverse envi. impact from emergency			
situation			
- Are planned response action periodically			
test.			
- Are process and planned response action			
review and revise, in particular after			
the occurrence of emergency situation			
or tests.			
- Provide relevant information and training			
related to emergency preparedness and			
response to relevant interested parties,			
including persons working under its contro			
- Shall maintain documented information			
to have confidence that process is carried			
out as planned			

Question	Y	N	Comment
9. Performance evaluation			
9.1 Monitoring, measurement, analysis and evaluation			
9.1.1 General : shall determine			
- หน่วยงานที่รับผิดชอบ			
- what needs to be monitored and measured			
- what are the method for monitoring, measurement, analysis and evaluation			
- Do the criteria against which the org. will evaluate its envi. performance			
- When the monitoring and measuring shall be performed			
- When the results from monitoring and measurement shall be analyzed and evaluated.			
- Are the equipment used calibrated or verified?			
- Shall retain documented information as evidence of the monitoring, measurement, analysis and evaluation result.			
9.1.2 Evaluation of compliance			
- หน่วยงานที่รับผิดชอบ			
- Retain documented information as evidence of the compliance evaluation result			
- Establish, implement and maintain the process needed to evaluate fulfilment of its compliance obligation			
- Determine the frequency that compliance will be evaluated			
- Evaluate compliance and take action if needed			
- Maintain knowledge and understanding of its compliance status			

Question	Y	N	Comment
9.2 Internal audit			
9.2.1 General			
- Is there conduct internal audit at planed intervals			
9.2.2 Internal audit programme			
- Is there establish, implement and maintain internal audit programme(s)			
- The programme include the frequency, methods, responsibilities, planning requirements and reporting of its internal audits			
- Is their define the audit criteria and scope for each audit.			
- The method to select auditors			
1. Objectivity			
2. Impartiality			
- Are the results of the audit reported to relevant management			
- Documented information as evidence of implementation of audit shall be retain			



Question	Y	N	Comment
9.3 Management review			
- Is planned interval			
- Review input			
1. Status of action from previous			
management review			
2. Change in			
○ External / internal issue			
○ Needs and expectation of interested			
parties			
○ Its significant envi. aspect			
○ Risk and opportunities			
3. The extent to which envi. obj. have			
been achieved			
4. Information on the org. envi.			
performance			
○ Nonconformities and corrective			
action			
○ Monitoring and measurement result			
○ Fulfillment of its compliance			
obligation			
○ Audit result			
5. Adequacy of resource			
6. Relevant communication from			
interested parties, including complaints			
7. Opportunities for continual improvement			
- Review output shall include			
1. Conclusion			
2. Decision related to continual			
improvement opportunities			
3. Decision related to any need for			
changes to EMS, including resource			
4. Action, when envi. obj. have not been			
achieved			
5. Opportunities to improve integration			
of the EMS with other business process			
6. Any implication for the strategic direction			

Question	Y	N	Comment
10. Improvement			
10.1 General			
<ul style="list-style-type: none"> <li>- What are the opportunities for improvement (see 9.1, 9.2 . 9.3) and implement necessary action to achieve the intended outcome of EMS</li> </ul>			
10.2 Nonconformity and corrective action			
<ul style="list-style-type: none"> <li>- Is there documented information of               <ol style="list-style-type: none"> <li>1. The nature of the NC and any subsequent actions taken</li> <li>2. The result of any corrective action</li> </ol> </li> </ul>			
<ul style="list-style-type: none"> <li>- When a NC occur, the org shall               <ol style="list-style-type: none"> <li>1. React</li> <li>2. Evaluate the need for action</li> <li>3. Implement any action needed</li> <li>4. Review the effectiveness</li> <li>5. Make changed to EMS</li> </ol> </li> </ul>			
10.3 Continual improvement			
<ul style="list-style-type: none"> <li>- Shall continually improve</li> </ul>			