Unofficial translation

MINISTERIAL INSTRUCTIONS ON HAZARDOUS WASTE MANAGEMENT

2015
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MINISTERIAL INSTRUCTIONS ON HAZARDOUS WASTE MANAGEMENT

- Pursuant to Articles 35, 38, 39 and 40 in Chapter 2 Part III and Articles 78, 79 and 80 in Chapter 1 Part X of the Environmental Protection Law (Revised) No. 29/NA, dated December 18, 2012;
- Pursuant to the Government Decree on the Establishment and Function of the Ministry of Natural Resources and Environment No. 435/PM, dated November 28, 2011;
- Pursuant to the Ministerial Agreement on Endorsement and Promulgation of a List of Investment Projects and Activities Required for Conducting Initial Environmental Examination or Environmental Impact Assessment No. 8056/MONRE, dated December 17, 2013;
- Pursuant to the IEE Ministerial Instruction of the Ministry of Natural Resources and Environment No. 8029/MONRE, dated December 17, 2013;
- Pursuant to the EIA Ministerial Instruction of the Ministry of Natural Resources and Environment No. 8030/MONRE, dated December 17, 2013;

The Minister of the Ministry of Natural Resources and Environment issues the following Instructions:
Chapter I
Objectives and principles

1.1 Objectives
To identify hazardous waste classification, and ensure that all stakeholders including those in the public and private sectors who generate hazardous waste and the communities concerned have the same understanding of the details and implementation approaches related to the import, export, transfer, storage, use, recycling and disposal of hazardous waste in the entire country, which aims to prevent and reduce the generation of hazardous waste and operate advance notification regulations and approval procedures by the competent authority as well as the National Focal Point of Basel Convention.

1.2 Hazardous waste management principles
Basic principles of hazardous waste include:
1) Ensure Law Enforcement;
2) Use tools, mechanisms and technical measures in hazardous waste management such as the lowest waste generation technology or disposal, and consumption and recycling technology;
3) Control the numbers for import, export, transfer, preservation, consumption, recycling and disposal;
4) Prevent and reduce hazardous waste generation in both quantity and hazard;
5) Ensure the participation of communities;
6) Ensure the existence of hazardous waste treatment and disposal areas.

Chapter II
Hazardous waste classification and concentration

2.1 Hazardous waste classification
Article 37 of Chapter 3 in Part III of the Environment Protection Law (Revised) has categorized waste into two types:
   a) General wastes
   b) Toxic and hazardous wastes
Hazardous waste that contains one or more toxic substances or
characteristics or releases substances that have corresponding characteristics are categorized as follows:

1) Explosive
2) Flammable
3) Oxidizing
4) Toxic or harmful to health (acute or chronic, irritating, carcinogenic, mutagenic)
5) Infectious
6) Corrosive
7) Toxic to the ecosystem (eco-toxic).

Moreover, boxes or containers contaminated with toxic and hazardous chemicals are considered as toxic and hazardous waste.

2.2 Identifying toxic and hazardous waste concentration

Concentration identification of toxicity in waste or toxicity to the ecosystem must operate on a case to case basis with references or scientific information from acceptable laboratories. Toxic components of the waste determined by the highest concentration limits would be identified as toxic and hazardous waste.

Concentration levels or characteristics to determine if waste is classified as hazardous are as follows:

1) Flash point $\leq 55^\circ$C,
2) Contains substances classified as very toxic at a total concentration $\geq 0.1\%$,
3) Contains substances classified as toxic at a total concentration $\geq 3\%$,
4) Contains substances classified as harmful at a total concentration $\geq 25\%$,
5) Contains corrosive substances classified as causing severe burns, at a total concentration $\geq 1\%$,
6) Contains corrosive substances classified as causing burns, at a total concentration $\geq 5\%$,
7) Contains irritant substances classified as causing serious damage to eyes, at a total concentration $\geq 10\%$,
8) Contains irritant substances classified as irritating to eyes, respiratory system or skin, at a total concentration $\geq 20\%$,
9) Contains substances known to be carcinogenic at a total concentration $\geq 0.1\%$

Toxic and hazardous classification and concentration identifying is referred to in the toxic and hazardous waste list in Appendix 1 of
the Basel Convention, which is in Appendix 1 of these instructions. In cases where the waste contains many hazardous chemicals which have similar hazardous characteristics, the concentration will be calculated together.

Contaminated empty containers will be identified as toxic and hazardous waste.

Soil and other substances or objects contaminated with chemicals will be considered as toxic and hazardous waste, except when the owner can guarantee that the concentration is bellowed and classified by the related organization.

2.3 Relationship between hazardous wastes and toxic chemicals
Meaning of relationship between hazardous wastes and toxic chemicals:
1) Waste from firing fuel, waste water and air pollution control such as ash from coal, oil and wood, waste muffler, waste from surface abrasion and mud from waste water can all be hazardous;
2) Hazardous waste can be recycled;
3) Recycling should focus on businesses that have environment certificates;
4) Environment certificates should have conditions relating to hazardous waste management and recycling, and
5) Law enforcement for waste water treatment and air and soil pollution control if generating a high amount of hazardous waste.

Chapter III
Obligation for hazardous waste management

3.1 Obligations of government agencies concerned with hazardous waste management
To implement the prevention and control of scattered hazardous waste transfer and to control import-export and cross-border transfer of hazardous waste, the related government agencies must act as follows:
1) Consider application register and permit for import-export or cross-border transit of hazardous waste from entrepreneurs and destruction services;
2) Draft contract for import-export or cross-border transit of hazardous waste with entrepreneurs and services by clearly
specifying responsibilities of each party;
3) Seek necessary information such as destruction process from entreprenuers and services who need to import-export or cross-border transit hazardous waste to use as reference for filling out forms and transfer certificates;
4) Weigh and inspect, and if necessary sample to ensure the waste is following the notification and contract. After this, the unit concerned must sign the transit certificate and send copies to the local authorities concerned in seven work days;
5) In the case of hazardous waste being destructed appropriately without any impact to the social system and environment, the concerned units would also sign the transit certificate and send copies to the authorities or countries concerned in 180 work days;
6) Officially inform local or import country units concerned to exporter and/or transit or notified person according to cases on permit, with consideration to transfer with or without conditions or rejection or additional information request;
7) Prohibit hazardous waste in cases of destruction services confirming the waste cannot be destructed in an eco-friendly manner;
8) Specify legal measures to implement import-export and transit control;
9) Specify standards and containment methods by using specific stickers following international standards;
10) Identify the need to have insurance and financial guarantees, and obligation contracts with entreprenuers on hazardous waste according to import-export or transfer requests; and
11) Identify punishment measures for illegal import-export or transit entreprenuers in Lao PDR.
For steps 4 and 5, implement destruction of all hazardous waste imports as issued in Appendix 3 of these instructions. In cases where the imports and destructed services of hazardous waste are apart, the following must apply:
12) Draft contract between exporter, importer and destructor;
13) While importing hazardous waste, the transit certification must be signed before sending to the destructor.

3.2 Obligations of hazardous waste generators.
To prevent, control and reduce hazardous waste, the generator
must do the following:

1) Hazardous generators from the industrial sector must prevent and reduce the quantity and risk of hazardous waste as much as possible by consuming non-toxic resources, clean technologies and the best eco-conditions operations;

2) Hazardous waste must not be diluted or contaminated with other waste or substances while in keeping, or during transport and destruction;

3) Different types of hazardous waste with different treatment procedures must be kept separately without contamination.

4) Hazardous waste generated by both public and private sectors must be kept, labeled and transferred properly according to regulations;

5) It is strictly prohibited to discharge hazardous waste into the environment, general waste landfills, sewer pipes, surface water, ground water or air;

6) It is strictly prohibited to burn waste in open areas;

7) Hazardous waste generators must be responsible for the preparation of environmentally friendly management, excluding hazardous wastes from households;

8) Hazardous waste must be sent only to an entrepreneur who has the related ECC in consuming, recycling, keeping, transporting or final treatment;

9) An institute generator of hazardous waste has the right to destruct, recycle, or operate other actions in their place in cases where the operation has followed the regulations and/or is one of the plans insured in their EIA;

10) Hazardous waste generators must be responsible for all expenditure related to environmental safety management during the keeping and transportation of waste, until it has been sent to entrepreneurs who have environment certificates for treatment and destruction as issued in Appendix 3 of these instructions.

3.3 **Obligations of hazardous waste businessmen**

Hazard waste transportation entrepreneurs or treatment or destruction entrepreneurs must adhere to the following:

1) Monitor and control waste generation, ensure contamination of hazardous waste;

2) Return hazardous waste to the generator if conditions for treatment or destruction are deficient;
3) Preserve memo of waste generation, transfer and transportation for treatment or destruction, and frequently report to the Pollution Control Department, MONRE. Waste transfers must be operated and separated by subtype as mentioned in Appendix 1 of these instructions;

4) Provide official document of receipt related to hazardous waste to transporter, who has an obligation to send the document back to the generator;

5) Hazardous waste transporter must have a proper permit certificate from the organization concerned. Vehicle must be equipped with the necessary tools and be appropriately labeled. Waste generator must inform ahead of transportation time, excluding a little quantity of hazardous waste from households;

6) Final destruction of hazardous waste must be carried out in specific hazardous waste landfills, or in an incinerator with high temperature permitted as in the ECC.

Chapter IV
Hazardous or other waste import, export and transit.

4.1 Hazardous or other waste importing.
In Article 39 of the Environment Protection Law (Amended) issues:
- Hazardous waste imports into Lao PDR are prohibited, excluding cases that have specific permission under Article 68 of the Environment Protection Law (Amended) issues:
- It is prohibited to import, export, transit, sell, collect, consume, recycle or destruct hazardous waste in the area of Lao PDR without permission.

In the case of hazardous or other wastes imported for recycling or for use as fuel, official permission must be obtained from permitted agencies under the National Coordinator of the Basel Convention.

Organizations that are allowed the import license for hazardous or other wastes which are controlled by regulation under the Basel Convention conditions are as follows:
1) Export state must be party to the Basel Convention;
2) Exporter must provide appropriate information of
hazardous waste and specific treatment plan as issued in Appendix 5 of these instructions;

3) Contract between exporter and importer in Lao PDR and receiver providing treatment, reuse, recycling and destruction must have ECC and ensure there is no problem related to environmentally friendly waste management;

4) Importer has an obligation to provide information to exporter and authorized agencies of import and export countries about receipt and destruction of hazardous waste;

5) Maximum limit for multiple import permission is one year, if the waste has similar physical and chemical characteristics of substances by import via the same international inbound custom checkpoint of Lao PDR.

The approval agency can terminate the license at any time if there is a valid reason, such as reliable proof that the hazardous waste would not be managed by an environmentally friendly procedure.

4.2 **Hazardous waste or other waste exporting.**

Organizations that allow an import license for hazardous or other wastes which are controlled by regulations under the Basel Convention conditions should act as follows:

1) Import and receiving states must be party to the Basel Convention;

2) Exporters must provide appropriate information about the hazardous waste and have a specific treatment plan as issued in Appendix 5 of these instructions;

3) Contract between importer and exporter in Lao PDR and receiver providing treatment, reuse, recycling and destruction must have ECC and ensure there is no problem related to environmentally friendly waste management;

4) Exporter or transporter has an obligation to inform importer and authorized agencies of import and export countries about receipt and destruction of hazardous waste;

5) Maximum limit for multiple export permission is one year, if the shipping waste has similar physical and chemical characteristics of substances by import via the same international departure custom checkpoint of Lao PDR.

The permit agency can terminate the license at any time if there
is reason to believe that the hazardous waste would not be managed by an environmentally friendly procedure.

Chapter V
Monitoring and reporting

5.1 Monitoring and reporting of hazardous waste generation and destruction.

For self-monitoring and reporting of hazardous waste, generators who request the ECC for a project operation as issued by the Ministerial Agreement of Minister of Natural Resources and Environment No. 8056/MoNRE date December 17, 2013 must implement the following:

1) Hazard waste generators have an obligation to record and report their hazardous waste management procedures;
2) Maintain a one year record and send to a permit agency;
3) Recording and reporting should contain information which may not be included in the Environmental and Social Monitoring and Management Plan before receiving the ECC, as follows:
   Name and origin of hazardous waste.
   - Quantity of hazardous waste in kilograms or tonnes per year;
   - Physical characteristics: Solid, liquid, sludge or gas;
   - Hazardous waste is mostly organic or inorganic;
   - Details of toxic and hazardous characteristics;
   - Separation of the hazardous waste as mentioned in the subgrouping in Appendix I of these instructions;
   - Details about the treatment procedure of the hazardous waste; hazardous waste that will be recycled, incinerated and transported to landfill, kept and treated in arranged places or other managed procedures; and
   - name of transport, treatment, recycling or destruction service providers of the hazardous waste as mentioned in the procedures issued in Appendix 3 of these instructions.

Related organizations would develop specific regulations for the monitoring and reporting of hazardous waste.
Chapter VI  
Roles of Natural Resources and Environment  
Section on hazardous waste management and sanctions against offenders

6.1 Roles of Natural Resources and Environment Section.
MONRE is obliged to adhere to the following mandates and obligations related to hazardous waste:

1) In cooperation with line ministries, to develop the necessary conditions for hazardous waste treatment and destruction according to the procedures in Appendix 3 of these instructions;

2) Coordinate with organizations involved such as public, private and citizens to develop the infrastructures used in hazardous waste management and services;

3) Coordinate at provincial and local levels to develop the necessary conditions for supporting hazardous waste generated from households and public services;

4) Coordinate with the organizations concerned to collect, develop and maintain database of hazardous waste origins and managing procedures;

5) PCD is the hazardous waste import-export and transit permit agency and national focal point of the Basel Convention relating to hazardous waste transit control and Rotterdam Convention on prior notification process of hazardous substances related to hazardous and other wastes under control of Basel Convention.

The Pollution Control Department, Department of Environment and Social Impact Assessment, Natural Resources and Environment Institute and Provincial and Capital Division of Natural Resources and Environment are responsible for the following:

1) Monitor and implement hazardous waste management of hazardous waste generated businesses, including sample collection and analysis;

2) Ensure the hazardous waste generated entrepreneur collects records and reports on hazardous waste generation and management;

3) Ensure the hazardous waste generated entrepreneur has set up and facilitated equipment for treatment and destruction as mentioned in Appendix 3 of these instructions, which
must specify details in the EIA to request an ECC;
4) Ensure the EIA report includes a preliminary study on the IEE which contains the type and quantity of the hazardous waste and proposes a hazard waste management plan;
5) Ensure the essential technical condition specifications for the treatment and destruction of hazardous waste generated by businesses has been included in the ECC to collect records and reports of hazardous waste and an environmentally friendly management process.

Roles and responsibilities of the Division of Provincial and Capital Natural Resources and Environment:

1) Monitor the implementation of hazardous waste management of SMEs who generate hazardous waste as classified in group 1 in the Ministerial Agreement of Minister of MONRE No. 8056/MONRE date December 17, 2013;

2) Ensure SMEs classified in group 1 in the Ministerial Agreement of Minister of MONRE No. 8056/MONRE date December 17, 2013 who generate hazardous waste collect records and reports of hazardous waste and management measures;

3) Report essential technical conditions for the supplying or treatment areas of hazardous waste to PCD, MONRE to consider the necessity or otherwise of EIA report development;

4) Monitor essential technical conditions for hazardous waste management ensuring non-contamination between hazardous and other wastes;

5) Collect information about the origin of hazardous waste by coordinating with local divisions of industry and commerce and authorities concerned, and report the information annually to PCD, MONRE.

Related other central and local Ministries would develop additional declarations on hazardous waste based on their own responsibilities and consistent with these instructions.

6.2 Sanctions against offenders

If project owners or entrepreneurs generate hazardous waste into the environment during the manufacturing process, MONRE will inform the project owners to complete the development of a hazardous waste management plan in 90 work days and pay a
hazardous waste generation fee as issued in specific regulations. In case of non-compliance, the project owners or entrepreneurs will be punished in accordance with Articles 92, 93, 94, 95, 96 and 97 of the Environmental Protection Law (Amended).

**Chapter VII**  
**Final Provision**

7.1 **Implementation**  
The Ministry of Natural Resources and Environment gives rights to the Pollution Control Department and Capital/Provincial Natural Re sources and Environment to collaborate with related local authorities and other sections to effectively disseminate, expand and implement these instructions.

7.2 **Entry into force**  
These instructions enter into force from the date of their signature.

Minister of the Ministry of Natural Resources and Environment

Noulinh SINBANDHIT
Appendix 1

I. Hazardous waste is controlled by the Basel Convention, of which Lao PDR is a part, managed as a subgroup:

Y1 Clinical wastes from medical care in hospitals, medical centers and clinics
Y2 Wastes from the production and preparation of pharmaceutical products
Y3 Waste pharmaceuticals, drugs and medicines
Y4 Wastes from the production, formulation and use of biocides and phytopharmaceuticals
Y5 Wastes from the manufacture, formulation and use of wood preserving chemicals
Y6 Wastes from the production, formulation and use of organic solvents
Y7 Wastes from heat treatment and tempering operations containing cyanides
Y8 Waste mineral oils unfit for their originally intended use
Y9 Waste oils/water, hydrocarbons/water mixtures, emulsions
Y10 Waste substances and articles containing or contaminated with polychlorinated biphenyls (PCBs) and/or polychlorinated terphenyls (PCTs) and/or polybrominated biphenyls (PBBs)
Y11 Waste tarry residues arising from refining, distillation and any pyrolytic treatment
Y12 Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish
Y13 Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives
Y14 Waste chemical substances arising from research and development or teaching activities which are not identified and/or are new and whose effects on man and/or the environment are not known
Y15 Wastes of an explosive nature not subject to other legislation
Y16 Wastes from production, formulation and use of photographic chemicals and processing materials
Y17 Wastes resulting from surface treatment of metals and plastics
Y18 Residues arising from industrial waste disposal operations
II. Waste having as its constituents:

Y19 Metal carbonyls
Y20 Beryllium; beryllium compounds
Y21 Hexavalent chromium compounds
Y22 Copper compounds
Y23 Zinc compounds
Y24 Arsenic; arsenic compounds
Y25 Selenium; selenium compounds
Y26 Cadmium; cadmium compounds
Y27 Antimony; antimony compounds
Y28 Tellurium; tellurium compounds
Y29 Mercury; mercury compounds
Y30 Thallium; thallium compounds
Y31 Lead; lead compounds
Y32 Inorganic fluorine compounds excluding calcium fluoride
Y33 Inorganic cyanides
Y34 Acidic solutions or acids in solid form
Y35 Basic solutions or bases in solid form
Y36 Asbestos (dust and fibres)
Y37 Organic phosphorus compounds
Y38 Organic cyanides
Y39 Phenols; phenol compounds including chlorophenols
Y40 Ethers
Y41 Halogenated organic solvents
Y42 Organic solvents excluding halogenated solvents
Y43 Any congenor of polychlorinated dibenzo-furan
Y44 Any congenor of polychlorinated dibenzo-p-dioxin
Y45 Organohalogen compounds other than substances referred to in this Annex (e.g. Y39, Y41, Y42, Y43, Y44)

III. Characteristic list of hazardous waste

A substance or liquid that is generally not flammable by itself, but can be flammable when oxygen increases and support other nearby flammable substances, has characteristics as follows:

H1 Explosive

An explosive substance or waste is a solid or liquid substance or waste (or mixture of substances or wastes) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings.

H3 Flammable liquids
The word 'flammable' has the same meaning as 'inflammable'. Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in a solution or suspension, for example, paints, varnishes, lacquers, etc., but not including substances or wastes otherwise classified on account of their dangerous characteristics.

**H4.1 Flammable solids**
Solids, or waste solids, other than those classed as explosives, which under conditions encountered in transport are readily combustible or may cause or contribute to fire through friction.

**H4.2 Substances or wastes liable to spontaneous combustion**
Substances or wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.

**H4.3 Substances or wastes which, in contact with water emit flammable gases.**
Substances or wastes which, by interaction with water, are liable to become spontaneously flammable or give off flammable gases in dangerous quantities.

**H5.1 Oxidizing**
Substances or wastes which, while in themselves not necessarily combustible may, generally by yielding oxygen, cause or contribute to the combustion of other materials.

**H5.2 Organic Peroxides**
Organic substances or wastes which contain the bivalent -o-o-structure are thermally unstable substances which may undergo exothermic self-accelerating decomposition.

**H6.1 Poisonous (Acute)**
Substances or wastes liable either to cause death or serious injury or to harm human health if swallowed, inhaled, or by skin contact.

**H6.2 Infectious substances**
Substances or wastes containing viable micro organisms or their toxins which are known or suspected to cause disease in animals or humans.

**H8 Corrosives**
Substances or wastes which, by chemical action, will cause severe damage when in contact with living tissue, or, in the case of leakage, will materially damage, or even destroy, other goods or the means of transport; they may also cause other hazards.

H10 Liberation of toxic gases in contact with air or water
Substances or wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.

H11 Toxic (Delayed or chronic)
Substances or wastes which, if they are inhaled or ingested or if they penetrate the skin, may involve delayed or chronic effects, including carcinogenicity.

H12 Ecotoxic
Substances or wastes which if released may present immediate or delayed adverse impacts to the environment by means of bioaccumulation and/or toxic effects upon biotic systems.

H13 Capable, by any means after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.

Appendix 2
I. Information to be provided on notification
1) Reason for hazardous and other waste export
2) Full name and detailed address of hazardous or other waste exporter.
3) Full name and detailed address of hazardous or other waste generator including generated places.
4) Full name and detailed address of hazardous or other waste destructor and destruction places.
5) Full name and detailed address of hazardous or other waste transporter or registered transport agency.
6) Name of hazardous or other waste export country including full name and address of permit agency.
7) Name of country through which hazardous and other waste will transit including full name and information of permit agency.
8) Name of hazardous or other waste import country including full name and address of permit agency.
9) General or single notification.
10) Projected date(s) of shipment(s) and period of time over which waste is to be exported, and proposed itinerary (including point of entry and exit)
   In case of general notification with several shipments, each shipment date and time must be specified. If there is no information, the frequency of the shipping plan must be specified.

11) Means of transport envisaged: road, rail, sea, air, inland waters.

12) Information relating to insurance must be implemented by individuals responsible for export, transport and destruction.

13) Characteristic specification of hazardous or other waste including subgroup (Y) and UN code and toxic and hazardous component or other waste such as: characteristic and concentration, especially toxic and hazardous, must be known to use in case of accident.

14) Type of packaging envisaged.

15) Estimated quantity in weight/volume.

16) Hazardous or other waste generation process in case of toxic and hazardous estimation and proposed appropriate destruction measures.

17) Information and notification of hazardous or other waste as mentioned in Appendix 1 of these instructions.

18) Destruction procedure as issues in Appendix 4 of the Basel Convention or in Appendix 3 of these instructions.

19) Certification of provided information or right verified certificate of notification of hazardous or other waste exporters and generators.

20) Transferred information from hazardous or other waste destructors containing technical details of waste generating businesses to exporter or generator must rely on evidence to assess that there is no reason that these wastes shall not be managed and destructed by environmentally friendly procedures in accordance with the regulations of the import country.

21) Information required for contract between exporter and destructor.

II. Information that must be provided for transportation:
   1) Full name and detailed address of hazardous and other waste exporter.
2) Full name and detailed addresses of hazardous and other waste generated places.
3) Full name and detailed address of hazardous and other waste destructor or registered transport agency.
4) Full name and detailed address of hazardous or other waste transport provider or registered transport agency.
5) General or single notification.
6) Initial cross-border transport date, signed by receiver and dated by each individual involved with hazardous or other waste.
7) Means of transport envisaged: road, rail, sea, air, inland waters, transit and import country, including arrival and departure international border checkpoints.
8) Provide details of hazardous and other waste such as: characteristic, name and means of transport as mentioned in the United Nations’ Transport Code, subgroups (Y) and (H) as issues in Appendix 1.
9) Information on specific transportation including emergency measures in case of accident occurring.
10) Type of packaging envisaged.
11) Estimated quantity in weight/volume.
12) Certification of provided information or right information certificate of notification of hazardous or other waste exporter and generator.
13) Information notification of generator of exporter issues the approval from permit agency that is a party.
14) Certification from destructors about receiving hazardous or other waste to destruct at settle site and issue of destruction procedure and date/day of destruction plan.

Appendix 3

I. Destruction procedures of hazardous or other waste:

D1 Deposit into or onto land, (e.g., landfill, etc.)
D2 Land treatment, (e.g., biodegradation of liquid or sludgy discards in soils, etc.)
D3 Deep injection, (e.g., injection of pumpable discards into wells, salt domes of naturally occurring repositories, etc.)
D4 Surface impoundment, (e.g., placement of liquid or sludge discards into pits, ponds or lagoons, etc.)
Specially engineered landfill, (e.g., placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)

Release into a water body, except seas/oceans.

Release into seas/oceans including sea-bed insertion.

Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations in Section A

Physico chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations in Section A, (e.g., evaporation, drying, calcination, neutralization, precipitation, etc.)

Incineration on land

Incineration at sea

 Permanent storage (e.g., emplacement of containers in a mine, etc.)

Blending or mixing prior to submission to any of the operations in Section A

Repackaging prior to submission to any of the operations in Section A

Storage pending any of the operations in Section A

II. Operation that may lead to recovery, recycling reclamation, direct reuse or alternative uses.

Use as a fuel (other than in direct incineration) or other means to generate energy

Solvent reclamation/regeneration

Recycling/reclamation of organic substances which are not used as solvents

Recycling/reclamation of metals and metal compounds

Recycling/reclamation of other inorganic materials

Regeneration of acids or bases

Recovery of components used for pollution abatement

Recovery of components from catalysts

Used oil re-refining or other reuses of previously used oil

Land treatment resulting in benefit to agriculture or ecological improvement

Uses of residual materials obtained from any of the operations numbered R1-R10
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<td>Exchange of wastes for submission to any of the operations numbered R1-R11</td>
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