

**ENVIRONMENT IMPACT ASSESSMENT
REPORT ON**

INVESTMENT PROPOSAL

**CONSTRUCTION OF NATIONAL DISPOSAL
FACILITY FOR LOW AND INTERMEDIATE
LEVEL RADIOACTIVE WASTE – NDF**

PART VIII

**INFORMATION ABOUT THE METHODOLOGIES USED FOR FORECAST
AND ENVIRONMENTAL IMPACT ASSESSMENT**

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CONTENTS

PART VIII

8	INFORMATION ABOUT THE METHODOLOGIES USED FOR FORECAST AND ENVIRONMENTAL IMPACT ASSESSMENT	3
8.1	REFERENCES	3
8.2	METHODS.....	13
8.2.1	AIR	13
8.2.2	GROUNDWATER AND EARTH	13
8.2.3	LAND AND SOIL	13
8.2.4	LANDSCAPE	13
8.2.5	BIODIVERSITY	13
8.2.6	NOISE	14
8.2.7	HEALTH ASSESSMENT	14
8.3	LEGISLATION	15
8.3.1	DOCUMENTS OF EBRD.....	15
8.3.2	DOCUMENTS OF ICRP	15
8.3.3	SAFETY STANDARDS OF IAEA AND TECHNICAL DOCUMENTS THAT COULD BE USED IN THE EVALUATION ON THE IMPLEMENTATION OF GOOD PRACTICES	15
8.3.4	BULGARIAN NATIONAL STANDARDS	17
8.3.5	EU DIRECTIVES	17
8.3.6	CONVENTIONS	18
8.3.7	ACTS.....	18
8.3.8	ORDINANCES	19
8.3.9	REGULATIONS	23

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- [194] Tarpanova, Hr., M. Naydenov, 1992, “Adapted method for identification of 90SR in soil” XIV colloquium “Physics in human health protection and environmental protection”, Gyulechitsa, 19-21.06. 1992, p. 10-21;

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- [196] Philipov, L., Em. Koyumdzhieva, N. Popov, 1989. Geological map of Bulgaria. Map sheet Kozloduy;
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- [198] Tsankov, Ts., L. Nedyalkova, V. Angelov and etc., 1991. Geological map of Bulgaria. Map sheet Vratsa.

8.2 METHODS

8.2.1 AIR

1. Methods for balance calculations of the pollutants emitted into the atmosphere. MoEW, 2000, Sofia;
2. Substances from vehicles and their concentration in the surface layer of the atmosphere – software product **TRAFFIC ORACLE** (Order № RD 994/04.08.2003 of the MoEW);
3. EMEP/EEA air pollutant emission inventory guidebook 2013;
4. Gromkova, N. - Pre-processed Hourly Data Set - The Meteorological Input of Applied Diffusion Models, 1998, Bulg. Geoph. J., v. XXIV, No 3-4.

8.2.2 GROUNDWATER AND EARTH

5. Methods and interpretation for establishment of groundwater monitoring in Bulgaria, M. Galabov and colleagues.

8.2.3 LAND AND SOIL

The main and specific approach for characterization of the soil is the comparative ecological data analysis of data received by own studies, literature sources and studies of other specialists in connection with the Bulgarian legislation and soil quality standards applied in Bulgaria. On the basis of the data collected a forecast is made for direct and main impacts (if possible qualitatively) on the soil characteristics and their impact on other environment during construction, operation and closure of the investment proposal. A forecast is made in connection with the construction, operation, closure and future land use in case of emergency situations.

The main methods for evaluation of the land and soil are systematic and ecological analysis and synthesis of data, facts and literature related to the problem. Summary of data and conclusions are on the basis of the existing regulations, laws, ordinances and rules. The evaluation also includes a site visit and terrain research, analysis of maps and schemes; analysis of the available documentation, analysis of scientific literature, synthesizing the results from the analyses and preparation of expert evaluation.

8.2.4 LANDSCAPE

6. Method for landscape evaluation. Analysis of the landscape condition. Analysis and evaluation of the pollutants. Specification of the different elements of the landscape during their recovery process. Deviations in functional, spatial, socio-economical and aesthetic qualities of landscape under the impact of construction and operation on the site.

8.2.5 BIODIVERSITY

Field researches for assessment of the biodiversity, rare and endangered taxa and habitats during the fauna impact assessment related to the project. Own terrain surveys:

- area;
- route;
- stationary;

Terrain and route researches of the affected areas within the territory.

1. Guidelines on Assessment of plans and projects significantly affecting NATURA 2000 sites, Methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC, EC, November 2000;
2. Biotic index (BU) for assessment on the surface running water quality with 5-point scale (monitoring methods from 1998 approved by MoEW);
3. Braun Blanquet. Method for floristic, phytosociological and geo-botanical studies;
4. Methods for evaluation of the condition of the biocenoses depending on the biocenotic value of the object.

Assessment on the populations of plant and animal species.

1. Method for assessment of the biological sufficiency of the river ecosystems (Senior Scientist II, Dr. Eng K. Zarbova, "Vodno delo", 1 /91);
2. Calculation methods: the line transect method and method of trial sites are used in the flora research. Identification of the species is made under Flora of National Republic of Bulgaria, item 1-10 and Identifier of the higher plants in Bulgaria, 1992. Identification of the habitats is under the Guidelines for identification of habitats of European importance in Bulgaria (V. Kavrakova, D. Dimova, M. Dimitrov, R. Tsonev & T.Belev, 2005). Vegetation of the meadows and pastures in Bulgaria (I.Ganchev, I.Bondev & S. Ganchev, 1964).

8.2.6 NOISE

1. Methods for identification of the level of auto transport noise in road design (GUP, 1995).

8.2.7 HEALTH ASSESSMENT

1. Method for sanitary inspection – the assessments, conclusions, suggestions for measures and recommendations are prepared on the basis of site inspection and survey on the specifications of the works executed, reasons and sources of professional disutility, condition of sanitary and technical rehabilitation. (Guidelines on hygiene and professional diseases, editor D.Tsvetkov, Sofia Medicine and physical culture, 1994);
2. Method of indirect exposure – forecasting the adverse health effects in connection with the nature, intensity and exposure of the disutility of the environment. (Guidelines on hygiene and professional diseases, editor D.Tsvetkov, Sofia Medicine and physical culture, 1994);
3. Methods of epidemiological studies on the impact of environmental factors on human health. (Guidelines on hygiene and professional diseases, editor D.Tsvetkov, Sofia Medicine and physical culture, 1994);
4. Method for sanitary inspection Guidelines on hygiene and professional diseases, editor D.Tsvetkov, Sofia Medicine and physical culture, 1994.

8.3 LEGISLATION

8.3.1 DOCUMENTS OF EBRD

- (1). Environmental policy and social policy of EBRD, approved on 12.05.2008;
- (2). Public Information Policy of EBRD, approved on 12.05.2008;
- (3). Environmental Procedures of EBRD, 28 July 2003.

8.3.2 DOCUMENTS OF ICRP

- (4). ICRP, Radiological Protection Policy for the Disposal of Radioactive Waste, Publication No. 77, Elsevier, Oxford (1997);
- (5). ICRP, Radiation Protection Recommendations as Applied to the Disposal of Long-Lived Solid Radioactive Waste, Publication No. 81, Elsevier, Oxford (1999)

8.3.3 SAFETY STANDARDS OF IAEA AND TECHNICAL DOCUMENTS THAT COULD BE USED IN THE EVALUATION ON THE IMPLEMENTATION OF GOOD PRACTICES

- (1). Considerations in the development of near surface repositories for radioactive waste, Technical reports series No.417, 2003;
- (2). Disposal Aspects of low- and intermediate-level level decommissioning waste, IAEA-TECDOC-1572, 2007;
- (3). Disposal of Radioactive Waste. Safety Standards Series No. SSR-5, 2011;
- (4). Disposal options for disused radioactive sources, Technical reports series No.436, 2005
- (5). Fundamental Safety Principles, SF-1, 2006 ;
- (6). IAEA Safety Glossary: Terminology Used in Nuclear Safety and Radiation Protection, 2007 Edition. Vienna, 2007;
- (7). IAEA, Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material, Safety Safety Standards Series SSG-26, 2014;
- (8). IAEA, Environmental and Source Monitoring for Purposes of Radiation Protection Safety Guide IAEA Safety Standards Series RS-G-1.8, 2005;
- (9). IAEA, Fundamental Safety Principles, Safety Fundamentals No.SF-1, IAEA, 2006;
- (10). IAEA, ISAM Report Safety Assessment Methodologies for Near Surface Disposal Facilities, vol.1 Review and Enhancement of Safety Assessment Approaches and Tools, vol.2 Test cases;
- (11). IAEA, Low- and intermediate-level level waste repositories: socioeconomic aspects and public involvement, IAEA-TECDOC-1553, Vienna, 2007;
- (12). IAEA, Monitoring and Surveillance of Radioactive Waste Disposal Facilities, IAEA Safety Standards, Specific Safety Guide No.SSG-31, 2014;
- (13). IAEA, Near Surface Disposal Facilities for Radioactive Waste, IAEA Safety Standards, Specific Safety Guide N.SSG-29, 2014;
- (14). IAEA, Near Surface Disposal of Radioactive Waste, Safety Requirement, Safety Standards Series No. WS-R-1, 1999;
- (15). IAEA, Predisposal Management of Radioactive Waste, Safety Standards, No. GSR part 5, 2009;

- (16). IAEA, Procedures and techniques for closure of near surface disposal facilities for radioactive waste, IAEA-TECDOC-1260, 2001;
- (17). IAEA, Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards IAEA Safety Standards Series GSR Part 3, 2014;
- (18). IAEA, Regulations for the Safe Transport of Radioactive Material (2012 Edition) Safety Standards Series No. SSR-6, 2012;
- (19). IAEA, Safety Assessment for Near Surface Disposal of Radioactive Waste, Safety Guide, Safety Standards Series No. WS-G-1.1, 1999;
- (20). IAEA, Siting of near surface disposal Facilities, IAEA Safety Series No.111-G-3.1, 1994;
- (21). IAEA, Storage of Radioactive Waste, Safety Standards, Safety Guide No.WS-G-6.1, 2006;
- (22). IAEA, Surveillance and Monitoring of Near Surface Disposal Facilities for Radioactive Waste Safety Reports Series 35, 2004;
- (23). IAEA, The Principles of Radioactive Waste Management, Safety Standard Series No.111-F, IAEA, 1995;
- (24). IAEA, The Safety Case and Safety Assessment for the Disposal of Radioactive Waste, IAEA Safety Standards, Specific safety Guide No.SSG-23, 2012;
- (25). Low- and intermediate-level level waste repositories: socioeconomic aspects and public involvement, IAEA-TECDOC-1553, 2007;
- (26). Monitoring and surveillance of radioactive waste disposal facilities. Safety Standards Series No. SSG-31, 2014;
- (27). Near Surface Disposal Facilities for Radioactive Waste. Safety Standards Series No. SSG-29, 2014;
- (28). Near surface disposal of radioactive waste, Safety Requirements No. WS-R-1, 1999;
- (29). Performance of engineered barrier materials in near surface disposal facilities for radioactive waste, IAEA-TECDOC-1255, 2001;
- (30). Procedures and techniques for closure of near surface disposal facilities for radioactive waste, IAEA-TECDOC-1260, 2001;
- (31). Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards (Interim Edition). Safety Standards Series No. GSR Part 3 (Interim), 2011;
- (32). Safety assessment for the near surface disposal of radioactive waste, Safety Guide No. WS-G-1.1;
- (33). Safety considerations in the disposal of disused sealed sources in borehole facilities, IAEA-TECDOC-1368, 2003;
- (34). Scientific and technical basis for the near surface disposal of low- and intermediate-level level waste, Technical reports series No.412, 2002;
- (35). Surveillance and monitoring of near surface disposal facilities for radioactive waste, Safety Reports Series No. 35, 2004;
- (36). Technical considerations in the design of surface disposal facilities for radioactive waste, IAEA-TECDOC-1256, 2001;
- (37). The Principles of Radioactive Waste Management, Safety Fundamentals. Safety Standards Series No. No. 111-F, 1995;

8.3.4 BULGARIAN NATIONAL STANDARDS

- (1). BDS 17.4.1.04-88 – General requirements to soil classification according to the impact on them by the chemical pollutants;
- (2). BDS 17.4.3.01-86 – General requirements to the methods for identification of the pollutants;
- (3). BDS EN 10080:2005 - Steel for the reinforcement of concrete - Weldable reinforcing steel – General;
- (4). BDS EN 1992-1-1, Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings;
- (5). BDS EN 206-1:2002, Concrete - Part 1: Specification, performance, production and conformity BDS EN 206-1/NA:2008 National Annexe to BDS EN 206-1:2002 BDS EN 206-1:2002 ;
- (6). BDS EN 1998-1/NA. Eurocode 8: Design of structures for earthquake resistance;

8.3.5 EU DIRECTIVES

- (1). Directive 2012/27/EU of the European Parliament and Council regarding energy efficiency, 25.10.2012 г;
- (2). Decision of the Commission from 19 November, 2008 to be established detailed guidelines for applying and use of appendix II to Directive 2004/8/EC the European Parliament and the Council (notified under number C (2008) 7294 (2008/952/EC));
- (3). Directive 2001/42/EC on the assessment of the effects of certain plans and programmes on the environment June 2001;
- (4). Directive 2011/92/EU of the European Parliament and of the Council of 13 December 2011 on the assessment of the effects of certain public and private projects on the environment (codified version);
- (5). Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora;
- (6). Council Directive 79/409/EEC on the conservation of wild birds;
- (7). Council Directive 78/659/EEC of 18 July 1978 on the quality of fresh waters needing protection or improvement in order to support fish life;
- (8). Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 for establishing a framework for the Community action in the field of water policy;
- (9). Council Directive 1999/31/EC of 26 April 1999 on the landfill of waste 91/689/EEC (supplemented by 94/31/EEC) controlled hazardous waste management;
- (10). Council Directive 2006/117/ Euratom of 20 November 2006 on the supervision and control of shipments of radioactive waste and spent fuel Directive 1999/13/EC; on the limitation of emissions of volatile organic compounds;
- (11). Council Directive 2011/70/Euratom of 19 July 2011 establishing a Community framework for the responsible and safe management of spent fuel and radioactive waste;
- (12). Commission Recommendation of 11 October 2010 on the application of Art.37 of the Euratom treaty (2010/635/Euratom);
- (13). Directive 2004/8/EC of the European Parliament and Council (notified under number C(2008) 7294) (2008/952/EC);

8.3.6 *CONVENTIONS*

- (1). Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency (ratified February 1988);
- (2). Convention on Early Notification of a Nuclear Accident (ratified February 1988);
- (3). Convention on Nuclear Safety (ratified November 1995);
- (4). Convention on the Physical Protection of Nuclear Material (ratified April 1984 – amendment ratified March 2006);
- (5). Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management (ratified June 2000);
- (6). European landscape convention 20.04.2000, ratified by law, accepted by the 39th NA, SG issue 94/22.10.2004;
- (7). Joint Convention on the Safety of Spent Fuel Management and Safety of Radioactive Waste Management, ratified by law by the 38th National Assembly on 10.05.2000, SG issue 42/23.05.2000;
- (8). Energy Strategy of the Republic of Bulgaria until 2020, June 2011, accepted by Decision of the National Assembly of 1st June 2011;
- (9). Convention on Biological Diversity, 1993;
- (10). Convention on access to information, public participation in decision-making and access to justice in environmental matters (ratified by Law, accepted by the XXXIX National Assembly on 02.10.2003, SG issue 91/2003 in effect from 16.06.2004, published in SG issue 33/23.04.2004)
- (11). Convention on conservation of European wild flora and fauna and natural habitats, ratified by the Grand National Assembly with Decision accepted on 25.01.1991 – SG issue 13/1991 in effect for the Republic of Bulgaria from 01.05.1991;
- (12). Convention on Environmental Impact Assessment in a Transboundary Context Espoo (Finland), 25 February 1991, ratified by law, approved by the 37th National Assembly on 16.03.1995. SG issue 28/1995 prepared by Ministry of Environment and Water, published in SG issue 85/01.10.1999 in effect from 10.09.1997 and amendment in issue 89/12.10.1999.

8.3.7 *ACTS*

- (1). Act on the safe use of nuclear energy prom. SG. 63/28.06.2002, last amendment 68/02.08.2013;
- (2). Biodiversity Act, prom SG No 77/2002 last amendment No 66/26.07.2013;
- (3). Protected Areas Act, prom. SG No 133/1998, last amendment No 26/07/2013;
- (4). Soil Act, prom SG. No 89/6 November 2007, amend. SG. No 80/9 October 2009, amend. SG No 98/14 December 2010, amend. SG No 92/22 November 2011, amend. SG No 66/26 July 2013;
- (5). Land Conservation Act, prom. SG No 35/1996, last amendment in No 66/26 July 2013;
- (6). Regulation on implementation of the Land Conservation Act, prom. SG No 84/1996, last amend. 20.05.2011;
- (7). Ownership and Use of Agricultural Land Act, prom. SG No 17/1 March 1991, last amend. SG No 16/19 February 2013;

- (8). Law of protection from the harmful impact of the chemical substances and mixtures (LPHICSM), prom. SG No 10/04.02.2000 in effect from 05.02.2002, last amend. No 1/03.01.2014;
- (9). Health Act, prom. SG No 70/2004, last amend. No 1/03.01.2014;
- (10). Law on health and safety at work, prom. SG No 124/1997., last amend. No 27/25.03.2014;
- (11). Disaster Protection Act, prom. SG. No 102/19 December 2006, last amend. and suppl. SG. No 53 /27 June 2014;
- (12). Law on Spatial Planning, Prom. SG. No 1/2 January 2001, amend. and suppl. SG. No 53/27 June 2014;
- (13). Cultural Heritage Act, Prom. SG. No 19/13 March 2009, last amend. SG No 45/15 June 2012;
- (14). Act on the prevention of Harmful Effects of Waste on the Environment SG No 86/1997, No 56/1999, No 27 & 28/2000., SG No 86/2003;
- (15). Water Act, prom. SG No 67/27.07.99, last amend. and suppl. No 49/13 June 2014;
- (16). Medical Plants Act (Prom. SG No 29/ 07.04.2000, last amend. SG No 66/2013);
- (17). Environmental Protection Act, prom. SG No 91/25.09.2002, amend. No 98/18.10.2002, last amendment No 22/11.03.2014;
- (18). Act on the limitation of climate change in effect from 11.03.2014, Prom. SG. 22 /11 March 2014; Waste Management Act, Prom. SG. No 86/30 September 2003, last amend. SG No 26/30 March 2012;
- (19). Waste Management Act (WMA) (Prom. SG No 53/13.07.2012 2013, in effect from 13.07.2012, amend., No 66 /26.07.2013, in effect from 26.07.2013; amend. Decision № 11 /10.07.2014 of the Constitutional Court of the Republic of Bulgaria - No 61 /25.07.2014.);
- (20). Protection from Environmental Noise Act, prom. SG No 74/13.09.2005, in effect from 1.01.2006, last amend. No 66 /26.07.2013;
- (21). Clean Ambient Air Act, prom. SG No 45/28.05.1996, amend. No 49/7.06.1996, amend. No 85/26.09.1997, amend. and suppl. No 27/31.03.2000, No 102/27.11.2001, amend. No 91/25.09.2002, last amend. SG No 102/21.12.2012;

8.3.8 ***ORDINANCES***

- (1). Ordinances No O-4 /14.09.2012 on surface characterization prom., SG, No 22 /05.03.2013, in effect from 05.03.2013;
- (2). Ordinance № 1/27.06.2005 on standards for admissible emissions of harmful substances (pollutants) emitted in the atmosphere by facilities and activities with static sources of emissions, prom., SG No 64 /05.08.2005, in effect from 6.08.2006;
- (3). Ordinance № 1/07.07.2000 on research, use and protection of groundwater, prom. SG No 57/14.07.2000, amend. No 64/4.08.2000, last amend. No 28/19.03.2013;
- (4). Ordinance № 1/11.04.2011 on water monitoring, last amend. No 44/17.05.2013;
- (5). Ordinance № 11/14 May 2007 on standards for arsenic, cadmium, nickel and polycyclic aromatic hydrocarbons in ambient air, prom. SG No 42 /29 May 2007;

- (6). Ordinance № 12/15.07.2010 on standards for sulfur dioxide, nitrogen dioxide, particulate matter, lead, benzene, carbon monoxide and ozone in ambient air, prom. SG No 58/30.07.2010;
- (7). Ordinance № 12/18.06.2002 r. on requirements to surface water quality for water supply, prom. SG, No 63/ 28.06.2002, last amend. No 15/21.02.2012 in effect from 21.02.2012;
- (8). Ordinance № 14/23.09.97 on standards for admissible concentrations of harmful substances in the ambient air of the settlements, prom. SG No 88/3.10.1997, last amend. No 42 /01.01.2008;
- (9). Ordinance № 26/02.10.1996 on reclamation of disturbed areas, improvement of low productive lands, removal and utilization of the humus layer (prom. SG No 89 /22.10.1996, amend. and suppl. – No 30/2002);
- (10). Ordinance № 3/1 August 2008 on standards for admissible content of harmful substances in soil, issued by the Ministry of Environment and Water, Ministry of Health, Ministry of Agriculture and Food, prom. SG No 71/12 August 2008;
- (11). Ordinance №4 on the scope and contents of the investment proposals, SG No 51/2011;
- (12). Ordinance № 4 /12 January 2009 on soil monitoring (prom. SG No 19/13 March 2009);
- (13). Ordinance № 54/13.12.2010 on the activity of the national system for monitoring of environmental noise and requirements for implementation of self-monitoring and provision of information by industrial sources of environmental noise, prom. SG No 3/11.01.2011, in effect from 12.02.2011;
- (14). Ordinance № 6 on emission standards for admissible contents of harmful and hazardous substances in waste water discharged into the water bodies, prom. SG No 97/28.11.2000, last amend. SG No 24/23-03-2004.
- (15). Ordinance № 6 /26/06/2006 on the indicators for environmental noise, measuring the level of discomfort during the different parts of the day, the limit values of the indicators for environmental noise, the methods for assessment of the limit values of the indicators for noise and the harmful effects of the noise on the health of the population (MH, MoEW, SG No 58/2006);
- (16). Ordinance № 6 on terms and requirements and operation of landfills and other facilities and installations for recovery and disposal of waste (it is issued by the minister of environment and water prom., SG No 80/ 13.09.2013 in effect from 13.09.2013);
- (17). Ordinance № 6/26.03.1999 on the regulation and procedures for measurement of harmful substances emitted in the ambient air by facilities with static sources prom. SG No 31/6.04.1999, last amend. SG No 102/ 21.12.2012.
- (18). Ordinance № 7 on the requirements that the sites must meet for location of the waste treatment facilities (it is issued by the minister of environment and water, minister of regional development and public works, minister of agriculture and forestry and minister of health, prom., SG No 81 /17.09.2004);
- (19). Ordinance № 7 /08.06.1998 on the systems for physical protection of buildings SG No 70 /19.06.1998;
- (20). Ordinance № 7/14.11.2000 on terms and procedure for discharge of industrial waste water in the sewerage networks of the settlements prom. SG No 98/01.12.2000;
- (21). Ordinance № 7/ 22 December 2003 rules and regulations for different types of spatial and territorial development zones, it is issued by the MRDPW in effect from 13.01.2004. Prom. SG No 3 /13 January 2004, amend. SG. No 10 /28 January 2005 amend. SG No 11

- /1 February 2005, amend. SG No 51/ 21 June 2005, amend. SG No 63 / 2 August 2005, amend. SG No 41 /22 April 2008, amend. SG No 76 /5 October 2012, amend. SG No 21 /1 March 2013;
- (22). Ordinance № 7/03.05.1999 on ambient air assessment and quality management, prom. SG No 45/14.05.1999 in effect from 1.01.2000;
- (23). Ordinance № 9/ 16.03.2001 on water quality for drinking water purposes, prom. SG No 30 /28.03.2001, last amend. SG No 15 / 01.02.2012.
- (24). Ordinance № 10 / 24.02.2004 on the terms and conditions for the approval of internal combustion engines for off-road machinery with respect to emissions of pollutants (it is issued by the Minister of Agriculture and Forestry, prom., SG No 28/06.04.2004 in effect from 06.04.2004), last amend SG No 3 /10.01.2014;
- (25). Ordinance № RD-02-20-2/27.01.2012 on design of buildings and structures in seismic areas;
- (26). Ordinance № 1 /04 June 2014 on the procedures and templates for provision of information for waste as well as procedures for keeping public registers (prom., SG No 51 /20.06.2014);
- (27). Ordinance № 2 /23.07.2014 on classification of waste (it is issued by the minister of environment and water and minister of health, prom., SG No 66 /08.08.2014);
- (28). Ordinance № 4 on the terms and requirements for construction and operation of incineration waste plants and waste co-incineration plants (prom. SG No 36 /2013);
- (29). Ordinance №2 on protection from accidents during activities involving hazardous chemicals, SG No 100/1990;
- (30). Ordinance №2 /08.06.2011 on the issue of permits for discharge of wastewater in water bodies and setting individual emission limits for point source pollution prom. SG No 14/17.02.2012, last amend., suppl., No 44 /17.05.2013;
- (31). Ordinance №3 on the terms and conditions for research, design, approval and operation of the sanitary protective zones around water sources and facilities for drinking and house-hold purposes and around mineral water sources, used for medical, prophylactics, drinking and hygiene purposes, SG No 88 /27.10.2000;
- (32). Ordinance on batteries and accumulators and spent batteries and accumulators (accepted by Council of Ministers Decree № 351/ 27.12.2012, prom. SG No 2 /08.01.2013);
- (33). Ordinance on safety during radioactive waste management SG No 72 /17.08.2004, last amend. SG No 68 /2 August 2013;
- (34). Ordinance on the type, amount and procedure for imposition of sanctions for environmental damage or pollution in excess of the permissible levels and/or in case of non-compliance with established emission standards and emission limit values (prom., SG No 70 /09.09.2011);
- (35). Ordinance on the requirements for the quality of oil fuel, terms, procedure and manner of their control, accepted by CMD № 156 /15.07.2003, prom., SG No 66 /25.07.2003 in effect from 01.10.2003, last amend. and suppl., No 36 /10.05.2011, in effect from 10.05.2011;
- (36). Ordinance on the requirements for treatment of discarded tires (accepted by CMD № 221 /14.09.2012, prom. SG No 73 /25.09.2012);
- (37). Ordinance on the discarded electrical and electronic equipment (accepted by CMD № 256 /13.11.2013, prom. SG No 100 /19.11.2013 in effect from 01.01.2014);

- (38). Ordinance on provision of physical protection of nuclear facilities, nuclear material and radioactive substances SG No 77/03.09.2004, last amend. SG No 44/09.05.2008;
- (39). Ordinance on packaging and packaging waste (prom., SG No 85/06.11.2012, amend. and suppl., No 76/30.08.2013);
- (40). Ordinance on ensuring safety of the nuclear power plants SG № 66/30-07-04 last amendment in SG No 5/19.01.2010;
- (41). Ordinance on basic standards for radiation protection, prom. SG No 76/05.11.2012;
- (42). Ordinance on the spent waste oil and petroleum products (accepted by c CMD № 352 /27.12.2012, prom. SG No 2 /08.01.2013);
- (43). Ordinance on prevention of major accidents involving dangerous substances and limit their consequences, prom. SG No 39/ 12 May 2006, last amend. SG No 25 / 30 March 2010;
- (44). Ordinance on radiation protection during activities with sources of ionising radiation, prom. SG No 74/24.08.2004 last amend. and suppl. No 76 /08.10.2012;
- (45). Ordinance on the separate collection of bio waste, accepted by CMD № 275 /06.12.2013 (prom. SG No 107 /13.12.2013);
- (46). Ordinance on the procedure and issuance of licenses and permits for safe use of nuclear energy, prom. SG No 41/18.05.2004, last amend. SG No 78/30.09.2005;
- (47). Ordinance on the procedure and method for calculating the financial guarantee or equivalent insurance and provision of annual declarations related to transboundary movements of waste (accepted by CMD № 195 /10.07.2014, prom., SG No 59 /18.07.2014);
- (48). Ordinance on procedure and manner for limiting the manufacture, use or placing on the market of certain dangerous substances, mixtures and articles from Annex XVII of the REACH Regulation, accepted by CMD № 376/30.12.2011, prom. SG No 1 / 3 January 2012;
- (49). Ordinance on the manner of utilization of sludge from wastewater treatment through its use in agriculture (accepted by CMD № 339 /14.12.2004, prom., SG No 112 / 23.12.2004).
- (50). Ordinance on the procedure and manner for classification of hazardous substances and mixtures, accepted by CMD № 152/30.05.2011, prom. SG No 43 /7 June 2011.
- (51). Ordinance on procedure and manner of classification, packaging, and labelling of substances and mixtures SG No 68 / 31 August 2010, in effect from 31.08.2010. It will be applied until 31.05.2015.
- (52). Ordinance on the environmental quality for priority substances and certain other pollutants prom. SG No 88 /09.11.2010;
- (53). Ordinance on bio waste treatment, accepted by CMD № 235/ 15.10.2013 (Prom. SG No 92 / 22.10.2013);
- (54). Ordinance on construction waste management and inclusion of recycled construction materials, accepted by CMD No 277/05.11.2012 (Prom., SG No 89 /13.11.2012 in effect from 13.11.2012)
- (55). Ordinance on terms and conditions for implementation of compatibility assessment of plans, programmes, projects and investment proposals with the subject and objectives for

conservation of protected areas, prom. SG No 73 /11.09.2007 in effect from 11.09.2007, last amend. No 94 / 30 November 2012;

- (56). Ordinance on the terms and procedure for implementation of environmental impact assessment, prom. SG No 25/18.03.2003, last amend. No 94 / 30 November 2012;
- (57). Ordinance on the terms and procedure for transportation of radioactive substances, prom. SG No 60 /22.07.2005, last amend. SG No 13/14.02.2014;
- (58). Ordinance on the terms and procedure for establishment of special statute areas around nuclear facilities and sites with sources of ionizing radiation, prom. SG. No 69/06.08.2004 last amendment No 5 /19.01.2010;
- (59). Danube River Basin Management Plan in the republic of Bulgaria (DRBMP)
- (60). CMD № 53/1999 and Ordinance on the requirements for industrial and hazardous waste treatment and transportation /SG No 29/1999/;
- (61). CMD № 61/2003 Ordinance on national environmental management plan / SG No 26/2003/.

8.3.9 REGULATIONS

- (1). CMD № 18/23.01.1998 and Regulation on the organisation and procedure related to prevention and elimination of effects from disasters, accidents and catastrophes SG No 13/1998/;
- (2). CMD № 319/2002. Regulation on the structure and operation of Enterprise for management of environmental protection activities (EMEPA) /SG No 3/2003.