



ENVIRONMENTAL IMPACT ASSESMENT REPORT

for Investment Proposal:

BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

ANNEX 8: INPUT DATA

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PREPARED BY:

NELLY GROMKOVA — TEAM LEADER
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DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

VERSION: 03 DATE: AUGUST 2013 PAGE: 2/10

List of Input Data

Folder No.	Contents
Folder 1	Letter from Basin Directorate for Water Management of the Danube Region (BDWMDR), enclosed to letter from MEW, No. OBOC -220/05.07.2012
Folder 2	Letter – reply by the Mayor of Kozloduy Municipality in reference to Art. 4, Para 2 of the Regulation on EIA; copies of position papers, received as a result of the notification
Folder 3	Form adopted by virtue of Decision I/4 of the First meeting of the participating parties of the Convention on Environmental Impact Assessment within a Transboundary Context
Folder 4	Cover letter of the letter from the Republic of Rumania regarding the participation in the EIA procedure, in Bulgarian and English languages
Folder 7	EIA Report of Kozloduy NPP, 1999
Folder 8	EIA Report on dry spent fuel storage facility in Kozloduy Nuclear Power Plant (NPP), 2005
Folder 9	EIA Report on construction of a national storage facility for low and intermediate level radioactive waste, 2011
Folder 11	Copy of the cover page and the contents of the approved Emergency action plan
Folder 13	Strategy on management of spent nuclear fuel and radioactive waste up to 2030 MANAGEMENT PROGRAM ON SPENT NUCLEAR FUEL. Identification No. ДОД.ЯГЦ.ПМ.283/03
Folder 15	Choice of Sites for Construction of a New NPP in Bulgaria Report, Energoproekt, 1980
Folder 16	Engineering geological and hydro-geological conditions within Units 5 and 6, detail design phase, Science, Research and Engineering Institute, Energoproekt 1980
Folder 17	Seismicity assessment of Kozloduy Site, August 1991 Initial Data of Seismic Input and Soil Conditions of Kozloduy Site, October 1993
Folder 18	Report on implementation of contract for research and activities for increased security at Kozloduy NPP site – volume AI December, 1991 Enclosures
Folder 19	Analysis of the possibility of construction of another unit at Kozloduy NPP site, using the equipment supplied for Belene NPP, EnergoProekt, 1991
Folder 20	Report on additional geomorphologic neotectonic and seismologic research and activities, Geophysical institute, 1992
Folder 22	Report on implementation of contract for research and activities for increased security at Kozloduy NPP site – Experimental research on the dynamic characteristics of earth layers, 1992.
Folder 23	Analysis of the conditions for liquefying of the sands under the building for spent nuclear fuel facility, Part I, Engineering geological, hydro-geological and geomechanical conditions, Energoproekt, 1995
Folder 24	Zoning of loess-like sands and a preliminary assessment of the conditions for their transition into a thixotropic state, engineer-geological, hydro-geological and geomechanical conditions, Detail design phase, EnergoProekt, 1997 Graphic enclosures
Folder 25	Geological engineering, hydro-geological conditions in the section of water supply of the ETC , 1982
Folder 26	Geological and geological engineering research on the construction of a dry facility for
	spent nuclear fuel. ADDITIONAL GEOLOGICAL ENGINEERING RESEARCH OF THE SITE, STAGE I
	Bulgarian and English
	GEOLOGICAL ENGINEERING INVESTIGATION OF THE SITE, STAGE Ia Geophysical investigation of site 2 – Lavatrade EOOD, 2009
	GEOLOGICAL ENGINEERING CONDITIONS OF THE SITE , EnergoProekt, 1996

DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

VERSION: 03 DATE: AUGUST 2013 PAGE: 3/10

Folder 27	Reports on registration, analysis, processing and interpretation of seismologic
до36	information from the Local Seismologic Network in Kozloduy NPP area and Bulletins
	for the period of 1997 – 2012
	Initial data of seismic input and soil conditions at Kozloduy NPP site; 1993
	Proekt BUL9012
Folder 37	Report on performing of seismic research to clarify the variations of circulation
	velocity of the seismic waves at the construction site, EnergoProekt, 1992
	92. Scientific Technical Documentation (STD). Scientific Research Works (SRW) .002-1
	92. Scientific Technical Documentation (STD). Scientific Research Works (SRW).002-2
Foldow 20	Electricity Production (EP) - Seismicity research - 92
Folder 38	Initial data of seismic input and soil coditions at Kozloduy NPP site; 1993
Folder 39	Research on geophysical fields in the NPP region, December 1991; BAS GGRI
Folder 40	Report on implementation of contract for research and activities for increased security
E 11 44	at Kozloduy NPP site – volume B – Meteorology, 1991
Folder 41	Reassessment of the maximal flood level. II part/II stage/. Sofia, March, 1993,
	Energoproekt 2 files enclosed
Folder 42	Kozloduy Nuclear Power Plant EAD, town of Kozloduy, Hydro-technical facilities shop
roluer 42	(HTF) and Cold Channel (CC) water level elevation of the Danube River along the strip
	of the Bank Pumping Station (BPS)-1 at km 687 in meters from year 1980 to 2011.
Folder 43	Energoproekt – Update of engineering-hydrological and meteorological research –
1 Oluci 13	new technical water supply of Kozloduy NPP 1, 2, 3 volume II, October 1987
	69 files enclosed
Folder 44	Energoproekt - Kozloduy NPP Additional technical water supply, engineering-
	hydrological research of the Danube River level during the 1941-2003 period. Updated
	- May 2004.
Folder 45	Energoproekt. Existing hydro-technical channels. Part: Hydro-geological research of
	the lowlands in the section between the double channel and the Danube River. Detail
	design – December 1990.
Folder 46	EnergoProekt - Kozloduy NPP Open CC2Cold Channel and HC2Hot Channel.
	Engineering–geological surveys. General explanatory note. December 1989
Folder 47	IKO INVEST - Kozloduy NPP. Additional technical water supply; Geomorphology -
	raster 8 drawings from Technical Economic Specification Annex No. 378, 1st to 8th
T 11 40	August 1989.
Folder 48	Opportunities for building future new capacities at Kozloduy NPP site 1978. Part V
Folder 49	Investment survey of the opportunities for locating units 7 and 8 at Kozloduy site
Folder 50	1991. Penart on implementation of contract on research and activities ingressed acquirty at
roluel 50	Report on implementation of contract on research and activities increased security at Kozloduy NPP site – volume " Π "
	Report under the Agreement: Research and activities on increase of the security at
	Kozloduy NPP site – volume "E"
Folder 51	Clarification of the dispersion parameters of soil and water environment in the area of
10140101	the Kozloduy NPP site in view of analyzing the possible migration routes of the
	radionuclides from the NPP into the soil and hydrosphere, 1991.
Folder 52	Summary and analysis of the surveyed stability and strained condition of the
	embankment and the bed of the double channel, III-rd volume
Folder 53	Report on implementation of contract on research and activities for increased security
	at the Kozloduy NPP site – Human activity outside of Kozloduy NPP, 1993, 1994.
Folder 54	Report on implementation of contract on research and activities for increased security
	at the Kozloduy NPP site - Exceptional events, as a result of human activity.
	Energoproekt 1992 – 1994 r.
Folder 55	Report entitled "Clarification of the dispersion parameters of soil and water
	environment in the area of the Kozloduy NPP site in view of analyzing the possible
	migration routes of the radionuclides from the NPP into the soil and hydrosphere",
	1991.

DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

VERSION: 03 DATE: AUGUST 2013 PAGE: 4/10

Documentation of Precautionary protective action planning zone (PPAPZ) Technical assignment for performing of environmental assessment of Special Detailed Spatial Development Plan for Precautionary protective action planning zone around Kozloduy NPP(12.YK.T3.157) Scheme of Environmental assessment consultations. REPORT for defining of the scope and content of the EA of the project Special Detailed Spatial Development Plan for the Precautionary protective action planning zone around Kozloduy NPP Decision N 3-2012 of MEW Folder 79 Folder 84.85 Folder 86 Folder 86 Folder 91 Folder 92 Folder 91 Folder 92 Folder 92 Folder 93 Folder 94 Folder 94 Folder 94 Folder 95 Folder 96 Folder 97 Folder 97 Folder 97 Folder 97 Folder 98 Folder 98 Folder 98 Folder 99 Folder 99 Folder 90 Folder 91 Folder 90 Folder		
around Kozloduy NPP Decision N 3-2012 of MEW Local meteorological conditions in Kozloduy NPP area. Reports 1997 - 2011 Data from Automatic meteorological station, 2000 - 2011 Information on GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES from Kozloduy NPP Results from radio-ecological/environmental monitoring of Kozloduy NPP - Annual report, March 2012 Results from radiation environmental monitoring in Kozloduy NPP Annual report, 2008, 2009, 2010 and 2012. Annual reports on the results from the in-house non-radiation environmental monitoring around Kozloduy NPP 2008, 2009, 2010 and 2012. Information on admissible quantities for discharge and water consumption PROGRAMME on in-house non-radiation water monitoring during operation of Kozloduy NPP, Identification No. YK.YOC.IIM.013/04 PROGRAMME on RADIATION ENVIRONMENTAL MONITORING DURING OPERATION OF KOZLODUY NPP, Identification No. YK.YOC.IIM.013/04 PROGRAMME ON RADIATION ENVIRONMENTAL MONITORING DURING OPERATION OF KOZLODUY NPP, Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR IN-HOUSE MONITORING OF LANDFIL FOR NON-RADIOACTIVE MUNICIPAL AND INDUSTRIAL WASTE BY KOZLODUY NPP, Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR IN-HOUSE MONITORING OF LANDFIL FOR NON-RADIOACTIVE MUNICIPAL AND INDUSTRIAL WASTE BY KOZLODUY NPP, Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING OF WATER KOZLODUY NPP DURING KOZLODUY NPP PEAD. Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER NT HE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES FROM KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLOD	Folder 63	Technical assignment for performing of environmental assessment of Special Detailed Spatial Development Plan for Precautionary protective action planning zone around Kozloduy NPP(12.YK.T3.157) Scheme of Environmental assessment consultations. REPORT for defining of the scope and content of the EA of the project Special Detailed
Folder 84,85 Folder 86 Folder 98 Folder 91 Folder 92 Folder 92 Folder 92 Folder 93 Folder 100 Folder 101 Folder 101 Folder 101 Folder 101 Folder 101 Folder 102 Folder 102 Folder 103 Folder 104 Folder 105 Folder 105 Folder 105 Folder 107 Folder 107 Folder 107 Folder 108 Folder 109 Folder 109 Folder 100 Folder 100 Folder 101 Folder 101 Folder 102 Folder 103 Folder 103 Folder 105 Folder 105 Folder 106 Folder 107 Folder 107 Folder 108 Folder 109 Folder 109 Folder 100 Folder 100 Folder 100 Folder 100 Folder 100 Folder 100 Folder 101 Folder 102 Folder 103 Folder 105 Folder 106 Folder 107 Folder 107 Folder 108 Folder 109 Folder 109 Folder 100 Folde		around Kozloduy NPP
Folder 86 Results from radio-ecological/environmental monitoring of Kozloduy NPP - Annual report, March 2012 Results from radiation environmental monitoring in Kozloduy NPP Annual report, 2008, 2009, 2010 and 2012. Folder 92 Folder 93 Folder 100 Folder 101 Folder 101 Folder 102 Folder 102 Folder 103 Folder 102 Folder 103 Folder 104 Folder 105 Folder 105 Folder 106 Folder 107 Folder 107 Folder 107 Folder 108 Folder 108 Folder 107 Folder 107 Folder 108 Folder 109 Folder 107 Folder 107 Folder 108 Folder 108 Folder 109 Folder 100 Folder		Data from Automatic meteorological station, 2000 - 2011
Folder 91 Folder 92 Folder 92 Folder 93 Folder 94 Folder 95 Folder 96 Folder 97 Folder 98 Folder 100 Folder 101 Folder 101 Folder 102 Folder 103 Folder 103 Folder 103 Folder 104 Folder 105 Folder 105 Folder 107 Folder 107 Folder 108 Folder 108 Folder 109 Folder 109 Folder 100 Folder 101 Folder 101 Folder 102 Folder 103 Folder 103 Folder 103 Folder 105 Folder 105 Folder 106 Folder 107 Folder 107 Folder 108 Folder 108 Folder 109 Folder 109 Folder 109 Folder 100 Folder 10		Kozloduy NPP
Folder 92 Folder 93 Folder 100 Folder 101 Folder 102 Folder 102 Folder 102 Folder 102 Folder 103 Folder 103 Folder 104 Folder 105 Folder 105 Folder 106 Folder 107 Folder 107 Folder 108 Folder 108 Folder 109 Folder 109 Folder 100 Folder 100 Folder 101 Folder 102 Folder 102 Folder 103 Folder 105 Folder 105 Folder 105 Folder 106 Folder 107 Folder 107 Folder 108 Folder 108 Folder 109 Folder 109 Folder 109 Folder 109 Folder 109 Folder 100 Fo	Folder 86	report, March 2012
Folder 98 Folder 100 Folder 100 Folder 101 Folder 101 Folder 102 Folder 102 Folder 102 Folder 102 Folder 103 Folder 103 Folder 104 Folder 105 Folder 105 Folder 106 Folder 107 Folder 107 Folder 108 Folder 108 Folder 108 Folder 109 Folder 109 Folder 109 Folder 100 Folder 100 Folder 100 Folder 100 Folder 101 Folder 101 Folder 103 Folder 105 Folder 105 Folder 106 Folder 107 Folder 107 Folder 107 Folder 108 Folder 108 Folder 109 Folder 109 Folder 107 Folder 107 Folder 108 Folder 109 Folder 109 Folder 109 Folder 109 Folder 109 Folder 109 Folder 100 F	Folder 91	2008, 2009, 2010 and 2012.
Folder 100 PROGRAMME on in-house non-radiation water monitoring during operation of Kozloduy NPP, Identification No. YK.YOC.IM.013/04 PROGRAMME ON RADIATION ENVIRONMENTAL MONITORING DURING OPERATION OF KOZLODUY NPP, Identification No. Yb.MOC.IIM.262/03 Annual report on the results from Kozloduy non-radiation environmental monitoring around Kozloduy NPP in 2011 Environmental protection programme of Kozloduy Municipality - 2010-2013 Consolidated report on radiation monitoring of Kozloduy industrial site for the years: 2009, 2010 and 2011 respectively. PROGRAMME FOR IN-HOUSE MONITORING OF LANDFIL FOR NON-RADIOACTIVE MUNICIPAL AND INDUSTRIAL WASTE BY KOZLODUY NPP, Identification No. YK.YOC.IIM.011/03 PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING OF WATER KOZLODUY NPP DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR MINIMIZATION OF RADIOACTIVE WASTE FROM ELECTIRITY GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.00.IIP.23/2 Test Report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 Folder 133 Folder 136 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Folder 141 Folder 141 Folder 142 Folder 143 Folder 144 Folder 144 Folder 145 Folder 146 Folder 146 Folder 147 Folder 147 Folder 148 Folder 149 Folder 149 Folder 149 Folder 149 Folder 140 Folder 141 Folder 140 Folder 141 Folder 141 Folder 140 Folder 141 Folder 141 Folder 141 Folder 141 Folder 141 Folder 141 Folder 142 Folder 143 Folder 144 Folder 145 Folder 146 Folder 147 Folder 148 Folder 149 Fold		monitoring around Kozloduy NPP 2008, 2009, 2010 and 2012.
Folder 100 PROGRAMME on in-house non-radiation water monitoring during operation of Kozloduy NPP, Identification No. YK.YOC.IM.013/04 PROGRAMME ON RADIATION ENVIRONMENTAL MONITORING DURING OPERATION OF KOZLODUY NPP, Identification No. Yb.MOC.IIM.262/03 Annual report on the results from Kozloduy non-radiation environmental monitoring around Kozloduy NPP in 2011 Environmental protection programme of Kozloduy Municipality - 2010-2013 Consolidated report on radiation monitoring of Kozloduy industrial site for the years: 2009, 2010 and 2011 respectively. PROGRAMME FOR IN-HOUSE MONITORING OF LANDFIL FOR NON-RADIOACTIVE MUNICIPAL AND INDUSTRIAL WASTE BY KOZLODUY NPP, Identification No. YK.YOC.IIM.011/03 PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING OF WATER KOZLODUY NPP DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR MINIMIZATION OF RADIOACTIVE WASTE FROM ELECTIRITY GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.00.IIP.23/2 Test Report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 Folder 133 Folder 136 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Folder 141 Folder 141 Folder 142 Folder 143 Folder 144 Folder 144 Folder 145 Folder 146 Folder 146 Folder 147 Folder 147 Folder 148 Folder 149 Folder 149 Folder 149 Folder 149 Folder 140 Folder 141 Folder 140 Folder 141 Folder 141 Folder 140 Folder 141 Folder 141 Folder 141 Folder 141 Folder 141 Folder 141 Folder 142 Folder 143 Folder 144 Folder 145 Folder 146 Folder 147 Folder 148 Folder 149 Fold	Folder 98	Information on admissible quantities for discharge and water consumption
Folder 102 Folder 103 Folder 105 Folder 106 Folder 107 Folder 107 Folder 107 Folder 107 Folder 108 Folder 108 Folder 108 Folder 108 Folder 108 Folder 109 Folder 109 Folder 109 Folder 109 Folder 109 Folder 107 Folder 107 Folder 108 Folder 108 Folder 109 Folder 109 Folder 109 Folder 109 Folder 100	Folder 100	PROGRAMME on in-house non-radiation water monitoring during operation of
Folder 103 Folder 105 Folder 105 Folder 107 Folder 107 Folder 107 Folder 107 Folder 108 Folder 108 Folder 108 Folder 108 Folder 108 Folder 109 Folder 109 Folder 109 Folder 109 Folder 100	Folder 101	
Folder 105 Consolidated report on radiation monitoring of Kozloduy industrial site for the years: 2009, 2010 and 2011 respectively. PROGRAMME FOR IN-HOUSE MONITORING OF LANDFIL FOR NON-RADIOACTIVE MUNICIPAL AND INDUSTRIAL WASTE BY KOZLODUY NPP, Identification No. YK.YOC.IIM.011/03 PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING OF WATER KOZLODUY NPP DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR MINIMIZATION OF RADIOACTIVE WASTE FROM ELECTIRITY GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.0O.IIP.23/2 Test Report N 06-0085-19.04.2012 Test report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 Folder 133 Folder 136 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Folder 141 Folder 141 Folder 142 Folder 143 Folder 144 Folder 145 Folder 146 Folder 147 Folder 147 Folder 148 Folder 149 Folder 149 Folder 149 Folder 149 Folder 149 Folder 140 Folder 141 Folder 141	Folder 102	ı
Folder 105 Consolidated report on radiation monitoring of Kozloduy industrial site for the years: 2009, 2010 and 2011 respectively. PROGRAMME FOR IN-HOUSE MONITORING OF LANDFIL FOR NON-RADIOACTIVE MUNICIPAL AND INDUSTRIAL WASTE BY KOZLODUY NPP, Identification No. YK.YOC.IIM.011/03 PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING OF WATER KOZLODUY NPP DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR MINIMIZATION OF RADIOACTIVE WASTE FROM ELECTIRITY GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.0O.IIP.23/2 Test Report N 06-0085-19.04.2012 Test report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 Folder 133 Folder 136 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Folder 141 Folder 141 Folder 142 Folder 143 Folder 144 Folder 145 Folder 146 Folder 147 Folder 147 Folder 148 Folder 149 Folder 149 Folder 149 Folder 149 Folder 149 Folder 140 Folder 141 Folder 141	Folder 103	Environmental protection programme of Kozloduy Municipality - 2010-2013
Folder 108 Folder 108 PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING OF WATER KOZLODUY NPP DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR MINIMIZATION OF RADIOACTIVE WASTE FROM ELECTIRITY GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.00.IIP.23/2 Folder 114 Test Report N 06-0085-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 Folder 133 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Folder 141 Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4.	Folder 105	Consolidated report on radiation monitoring of Kozloduy industrial site for the years:
NPP DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 PROGRAMME FOR MINIMIZATION OF RADIOACTIVE WASTE FROM ELECTIRITY GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.OO.IIP.23/2 Test Report N 06-0085-19.04.2012 Test report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES FROM KOZLODUY NPP Folder 136 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Folder 141 Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4.	Folder 107	MUNICIPAL AND INDUSTRIAL WASTE BY KOZLODUY NPP, Identification No.
Folder 114 GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.OO.IIP.23/2 Test Report N 06-0085-19.04.2012 Test report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES FROM KOZLODUY NPP Folder 136 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4.		NPP DURING KOZLODUY NPP OPERATION. Identification No. УК.УОС.ПМ.013/04
Test report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT KOZLODUY NPP PROGRAMME FOR IN-HOUSE NON-RADIATION MONITORING ON WATER DURING KOZLODUY NPP OPERATION. Identification No. YK.YOC.IIM.013/04 GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES FROM KOZLODUY NPP Folder 136 ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4.		GENERATION-2 OF KOZLODUY NPP EAD. Identification No. 30.PAO.OO.ΠP.23/2
 KOZLODUY NPP OPERATION. Identification No. YK.YOC.ΠΜ.013/04 GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES FROM KOZLODUY NPP ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4. 	Folder 114	Test report N 06-0086-19.04.2012 SUMMARISED RESULTS FROM PHYSICO-CHEMICAL TESTING OF WASTE AND GROUNDWATER IN THE REGION OF KOZLODUY NPP DURING 2011 SCOPE AND PERIODICITY OF TESTING OF WASTE AND GROUNDWATER AT
Folder 136 GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES FROM KOZLODUY NPP ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2006-2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-2011 period Folder 141 Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4.		
2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009- 2011 period Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4.	Folder 133	GASEOUS AND AEROSOL AND LIQUID RADIOACTIVE RELEASES FROM KOZLODUY
Folder 141 Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2, 3, 4.	Folder 136	2008 period ANALYSIS OF THE HEALTH STATUS OF STAFF AT KOZLODUY NPP EAD for the 2009-
Folder 142 Photographs/surveys of Sites 1, 2, 3, 4.	Folder 141	Technical report - Technical and economic survey for building a new nuclear capacity while using the equipment supplied for Belene NPP - Enrgoproekt 1999, Volumes 1, 2,
	Folder 142	Photographs/surveys of Sites 1, 2, 3, 4.

DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

VERSION: 03 DATE: AUGUST 2013 PAGE: 5/10

Folder 143	Location of the 10 measuring stations within the Precautionary Protective Action Planning Zone around Kozloduy NPP EAD
	Automated information system for radiation control of the industrial site of the NPP
Folder 80	Protocols on automatic mobile stations measurements for air control in the Danube
1 oraci oo	Ambient Air Quality Evalution and Management Area (ROUKAV) North/Danube
	carried out by Pleven Regional Laboratory in 2011 in the town of Kozloduy over a
	period of 52 days and nights
Folder 81	In compliance with air quality control schedules for automatic mobile stations, as
1 Oluci O1	approved by MEW to carry out additional measurements in regions where there are
	no or only a limited number of stationary outposts, in 2008, at the site of the Fire and
	Emergency Protection Regional Service in Kozloduy, 2 air quality measurements were
	undertaken with automatic mobile stations by Pleven Regional Laboratory:
	✓ Protocol No. 243/dated 28.03.2008 for the period from 24.03.2008 to 28.03.2008
	✓ Protocol No. 787/dated 30.09.2008 r. for the period from 26.09.2008 to 30.09.2008
	with data on concentrations in the surface boundary layer of: sulphur and nitrogen
	oxides (nitrogen dioxide and nitrogen oxide), ozone, hydrogen sulfide benzene,
	methane, ammonia, non-methane hydrocarbons and carbon monoxide.
Folder 94	Quality of underground water (with the exception of the Danube River) and
	hydrological data (including underground water levels, parameters of filteration area,
	inflow direction and drainage of underground water)
Folder 97	Environmental Status Report for the 2007 - 2011 period, Environment and Water
	Regional Inspectorate - Vratsa
Folder 115	Data on biological-indicators monitoring for the rivers of Ogosta and Zlatia for the
	2007 – 2011 period
Folder 123	National Mid-Winter Count 2011 § 2012
D 11 450	
Folder 150	ToR for investigation on and selection of a location for a new nuclear capacity at the
Folder 151	site of Kozloduy NPP EAD; ToR for technical and economic analysis as part of the justification for building a new
roluel 131	nuclear capacity at the site of Kozloduy NPP
Folder 152	BELENE NPP (Units 1, 2) – Technical Project – Interim Report on Safety Analysis
1 01uc1 132	Chapter 2. Site Description
Folder 153	Annual Report (2008 – 2011) of the International Commission for the Protection of
roraer 100	the Danube River
Folder 154	Regulation on Dangerous Chemical Substances and Preparations Subject to Trading
	and Usage Bans
Folder 155	I .Basic technical characteristics of the existing systems for RAW processing – capacity,
	types of RAW, final packages; II – General description of proposed RAW processing,
	temporary storage and burial facilities – capacities, types of RAW, types of packages;
	III - Current status of existing storage facilities, for temporary storage of RAW and
	provided capacity use in the future (the text highlighted in yellow refers to Units 1 to 4
	and is not subject to evaluation when it comes to RAW management)
Folder 156	EIA for Belene NPP
Folder 157	ToR for scope and content of EIA- South Stream Off-Shore Gas Pipeline, Bulgarian
	section
Folder 158	EIA Temelin (in Czech and Bulgarian languages)
Folder 159	Kozloduy NPP EAD EMERGENCY ACTION PLAN.
Folder 160	Environmental radiation monitoring results for the operations of Kozloduy NPP EAD –
	Annual reports for 1998, 1999, 2000, 2001, 2002.
Folder 161	List of Level-1 events (up to Level 1 inclusive) under the INES scale and above-Level-1
	events for Units 1 to 4, complete with respective protocols (No. of items – 18
Folder 162	protocols). Comprehensive Padicactive Waste Management Programme for implementation by
roluer 102	Comprehensive Radioactive Waste Management Programme for implementation by Kozloduy NPP EAD
	Noziouuy Ni F EAD

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DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

VERSION: 03 DATE: AUGUST 2013 PAGE: 6/10

Folder 163	Summary report on radiation monitoring on the industrial site of Kozloduy NPP for 2011
Folder 164	Annual Report for 2011: Radiation exposure of staff employed at Kozloduy NPP EAD.
Folder 165	Report on the work of the Nuclear Safety and Radiation Protection Department in 2011
Folder 166	Report containing independent expert evaluation of technogenic radionuclide content in the bodies of 150 children living in the area of Kozloduy NPP
Folder 167	Protocol for analysis of an all-units event dating back to 1994
Folder 168	Summary data report for real estate (land and buildings) within Sites 2 and 4.
Folder 169	Scheme with location of on-site facilities on the Master plan of Kozloduy NPP with relevant description.
Folder 170	Responses to additional queries.
Folder 171	Letter, subject – staffing levels.
Folder 172	EIA Report on the reconstruction and conversion of IRT–2000 research reactor during its transformation into a civil low-power reactor (200 kW) and its further application in medicine (neutron therapy for cancer treatment) – Sofia, Mladost residential quarters
Folder 173	Health-related and demographic indicators (death rate by cause of death, structure of disease prevalence, morbidity – children, elderly and total population per 100 000 people) for Kozloduy Municipality for the last 3 years.
Folder 174	Annual health and demographic analysis conducted by the Regional Health Inspectorate – Vratsa for the last 3 years, containing information on Item 1 for Vratsa District
Folder 175	Structure of cancer prevalence and morbidity for the District, and if available, for Kozloduy Municipality for the last three-year period
Folder 176	Health report produced by Kozloduy Multi-Profile Hospital for Active Treatment covering the last 3 years.
Folder 177	TERMS OF REFERENCE FOR SPECIFICATION OF THE SCOPE AND CONTENT OF THE ENVIRONMENTAL IMPACT ASSESSMENT OF THE INVESTMENT PROPOSAL FOR BUILDING A NATIONAL RAW STORAGE FACILITY FOR LOW-LEVEL AND INTERMEDIATE-LEVEL WASTE
Folder 178	ANALYSIS of the dose exposure of the population within the 30-km surveillance zone of Kozloduy NPP from gaseous and aerosol, and liquid, radioactive releases into the environment resulting from the decommissioning of Units 1 to 4 of the Plant and the emissions from the operations of the Plasma Melting Facility under Project 5c
Folder 179	Input data, Letter from the New Build Division, Reg. No. 118, dated 31.01.2013 Input data-Letter No.74. dated 21.012013
Folder 180	GUIDELINES FOR EVALUATION OF POSSIBLE SITES FOR NUCLEAR POWER PLANTS EXTERNAL MAN-INDUCED EVENTS WHEN EVALUATING POSSIBLE SITES FOR BUIDLING A NUCLEAR POWER PLANT Commissioning of nuclear power plants Decommissioning of facilities using radioactive materials
Folder 181	European Utility Requirements
Folder 181	European stresstesting of power plants - BULGARIA NATIONAL REPORT , December
roidei 162	2011
Folder 183	Registry of permits for the removal of deposited sediment from the Danube river; Letter from THE EXECUTIVE AGENCY FOR EXPLORATION AND MAINTENANCE OF THE DANUBE RIVER; Map with location of critical sections in Vidin District; Map with location of critical sections in Montana District;
	Map with location of critical sections in Vratsa District;
Folder 184	Responses to queries on Section "Waste and Dangerous Substances" – SUBFOLDER 1
101del 104	"Report on the implementation of the contract No. 21371061 between the Geological Institute and Kozloduy NPP EAD for three-phased execution" – evaluation of geological conditions for long-term storage of radioactive waste on-site and around Kozloduy

DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

Version: 03 Date: August 2013 Page: 7/10

NPP and comprehensive analysis, complete with technical and economic evaluation of the option to introduce long-term storage of conditioned radioactive waste on-site and in the near vicinity of Kozloduy NPP, Project Leader Prof. D. Evstatiev, 2003. The report is kept at Kozloduy NPP; - SubFOLDER 2

Report about service contract between Radio-Active Waste (RAW) State Enterprise and Prof. Yordan Evstatiev, Head of Geotechnics Research Facility at the Geological Institute of the Bulgarian Academy of Science (BAS): Development of geological and hydrological profiles from the plateau through the Radiana Site to the Danube river, 2012. The report belongs to the Radio-Active Waste State Enterprise; - SUBFOLDER 3 Geotechnika ABS OOD and the Geological Institute of the Bulgarian Academy of Science. 2009. Report on the findings of geological, geophysical, geological engineering, hydrological and laboratory surveys and tests with reference to the following site: "Confirming the suitability of Radiana Site for building a National RAW Storage Facility. A contract with RAW State Enterprise. The report is kept at RAW State Enterprise; - SUBFOLDER 4

Report on implementation of contract between Risk Engineering EAS and RAW State Enterprise entitled "Exploring the opportunities to build a deep geological repository". Task 4, implemented by the Geological Institute of the Bulgarian Academy of Science "Analysis and region identification on the territory of Bulgaria, specification of potential geologic formations for deep disposal of RAW." The report is kept at RAW State Enterprise - SUBFOLDER 5

Information about concrete batching plants in the region of Kozloduy NPP – SUBFOLDER 6

Instructions for safe storage of harmful and dangerous substances and materials in the Supplies and Storage Management Department – SUBFOLDER 7

Folder 185 List of enterprises operating within the 30-km zone around Kozloduy NPP on the territory of Vratsa District which are waste-water emitters and waste-gas emitters from point sources in the air;

Folder 186 Data related to the Nabucco Gas Pipeline:

Detailed Spatial Development Plan – provisional land use design for Oryahovo Municipality

The route of the Nabucco Gas Pipeline in its course through Oryahovo Municipality in .dwg format;

Risk assessment of the Nabucco Gas Pipeline in the region of the Kozloduy NPP – Interim Report, prepared by RISK ENGINEERING AD.

Folder 187 Data related to the South Stream Gas Pipeline:

PDF-format memo and drawings accompanying documentation entitled: Mathematical Modeling Simulation of accidents along the route of the gas pipeline in the area of Kozloduy NPP;

Letters from Kozloduy NPP with enclosed position papers on documentation.

Route of the gas pipeline in the section crossing the municipalities of Kozloduy and Mizia in AutoCAD format, Bulgarian coordinate system 1970, Controlled Zone;

Draft Detailed Spatial Development Plan for Site: Transport Gas High-Pressure Pipelines with AGRS from UGS Chiren to the towns of Kozloduy and Oryahovo, provided by Bultransgas EAD.

Folder 189 Non-Radioactive Waste Management Programme

Folder 188

Folder 190

Seismic hazards, seismic activity in the area (area is 140 km from Kozloduy) – maps, reports - information is available in **Annex 1_Catalog Kozloduy.xls**

Water, water maps, water levels, catchments, barriers (area is 30 km from Kozloduy) – information is available in:

Annex 2_Hydrological network.jpeg Annex 3_River_basin_cachments.jpeg Annex 4_Data_levels_Bechet_Corabia.xls the *Information Kozloduy* file, Item 2. Consortium

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DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

Version: 03 Date: August 2013 Page: 8/10

Meteo data – *temperature time series, air, air pollutions, wind rose data* (area is 30 km from Kozloduy) - the available information is contained in:

the Information Kozloduy file, Item 3; Annex 5_temp_medl_Bechet_1961_2012.xls

Geological maps scale 1:100000 and map of geological hazards scale 1:200000 or larger, tectonic map 1:100000 or larger and **Hydro geological map** (area is 30 km from Kozloduy) - the available information is contained in **the Information Kozloduy file, Items 4 and 5**.

Urban map with population data (area is 30 km from Kozloduy), **Description of the 30-km area**, including all municipalities - the available information is contained in **the Information Kozloduy file, Item 8.**

Special catalogue of all earthquakes (including historic ones) for Vrancea - the available information is contained in **Annex 6_Catalog Vrancea.xls**

Soil map scale 1:100000 or larger (area is 100 km from Kozloduy), **Information on land use** – the available information is contained in the following files:

Annex 7_Afected_areas_KOZLODUI_100km.pdf

Annex 8_Counties.pdf

Annex 9_Land_use.xls

Monitoring data for the rivers (area is 30 km from Kozloduy) – the available information is contained in **Annex 10_Monitoring data rivers.xls**

Ecological assessment of the Natura zones (Habitats and Birds) and monitoring data – species – 4 zones – ROSPA0010, ROSPA0023, ROSPA 0135, ROSCI0045 - the file entitled **Information Kozloduy, Item 15** contains relevant information and links.

Data from winter counting of waterfowl birds for last 5 years between km 660 and 730 of the Danube river and migrations assessment – spring and autumn ones - the file entitled **Information Kozloduy, Item 17** contains relevant information and links.

Red-book species (area is 30 km from Kozloduy)- the file entitled **Information Kozloduy, Item 18** contains relevant information and links.

Geographic data of nesting birds (area is 30 km from Kozloduy) - the file entitled **Information Kozloduy, Item 19** contains relevant information and links.

Quantities of species (fish) from Annex 2 of the Council Directive 92/46 within three Natura Zones – the file entitled Information Kozloduy, Item 20 contains relevant information and links.

Management plans of Natura zones and protected areas – these management plans are still being prepared; however, the file entitled **Information Kozloduy, Item 21 contains the contact details of administrators** for each protected zone who are available to take any queries.

*Health status of the population (*area is 30 km from Kozloduy – this piece of information is contained in the **Information Kozloduy file , Item 23.**

Folder 191

Test report No. 618/ dated 13.09.2010, produced by EEA on measuring noise levels at Kozloduy NPP EAD and a noise contours scheme

Test report No. 621/dated 14.09.2010 produced by EEA on measuring noise levels at Kozloduy NPP EAD and a noise contours scheme

DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

VERSION: 03 DATE: AUGUST 2013 PAGE: 9/10

Folder 192	Location of surface water monitoring outposts; No. of items - 1 sheet
	Engineering and geological study on piezometers; No. of items - 15 sheets
	Piezometer scheme; No. of items - 1 sheet
	Bank pumping station scheme with supply channels; No. of items - 1 sheet
	District of amending water level elevation for the Danube river; No. of items - 12
	sheets
	Consolidated data for the 2006 - 2012 period on conducted analyses of surface,
	ground and drinking water; No. of items - 3 sheets
Folder 193	Additional input data on the required machinery for engineering pre-construction
rolaer 190	phase of proposed sites for building the new nuclear capacity.
Folder 194	Updated data for the territory of the Republic of Romania.
Folder 195	
roluci 175	Report by Kozloduy NPP on the greenhouse gas emissions for 2009
	Report by Kozloduy NPP on the greenhouse gas emissions for 2010
	Report by Kozloduy NPP on the greenhouse gas emissions for 2011
	Report by Kozloduy NPP on the greenhouse gas emissions for 2012
	Annual report - Findings from the Radiation Monitoring at Kozloduy NPP in the
	course of 2012
	Letter from Production Directorate, summary data report with water balance for
	2002, 2006 and 2012
Folder 196	Description of non-radiation monitoring of waste water from Kozloduy NPP;
	Location of the Treatment Complex for Units 5 and 6 of Kozloduy NPP;
	Location of the waste water monitoring points.
Folder 197	Input data by the Regional Health Inspectorate – Vratsa on disease prevalence among
	the population in Vratsa District for 2010, 2011 and 2012
Folder 198	Additional input data on parking places at Kozloduy NPP site (around 1500) and the
1 older 170	quantity of fuel used by the two in-house car pools for the months of November,
	December and January.
Folder 200	List of ores and minerals deposits – report extract from National Balance of Stocks and
roidei 200	Resources;
	Specialised map containing information on the deposits of ores and minerals under
	Item 1 and the areas under concession;
	Specialised map containing information on the permits for search for and
E 11 004	investigation on registered geological discoveries;
Folder 201	Letter, Registry No. Д "БиК" 602/dated 16.04.2013 from Kozloduy NPP EAD:
	Non-radioactive waste water at the Kozloduy NPP site for 2006; No. of items - 1 sheet
	Non-radioactive waste water monitoring by type and outflow for 2012; No. of items - 1
	sheet
	Letter with Outgoing Correspondence No. Д "Π" 48/ dated 19.04.2013 about the used
	drinking water during 2006 and 2012
Folder 202	Protocols on sampling from waste water at the Kozloduy NPP site for 2012; No. of
	items - 16 protocols;
	Protocols on testing on underground water at the Kozloduy NPP site for 2012; No. of
	items - 3 protocols;
	Protocols on sampling from waste water at the Kozloduy NPP site for 2011; No. of
	items - 9 protocols;
	Protocols on sampling from underground water at the Kozloduy NPP site for 2011;
	No. of items – 2 protocols;
	Protocols on sampling from waste water at the Kozloduy NPP site for 2010; No. of
	items - 9 protocols;
	Protocols on sampling from underground water at the Kozloduy NPP site for 2010;
	No. of items – 5 protocols;
	Protocols on sampling from underground water at the Kozloduy NPP site for 2009;
	No. of items – 5 protocols;
	Protocols on sampling from underground water at the Kozloduy NPP site for 2008;
	No. of items – 5 protocols;

DOCUMENT: EIAR FOR IP BUILDING A NEW NUCLEAR UNIT OF THE LATEST GENERATION AT THE KOZLODUY NPP SITE

VERSION: 03 DATE: AUGUST 2013 PAGE: 10/10

	Protocols on sampling from underground water at the Kozloduy NPP site for 2007;
	No. of items – 5 protocols;
Folder 203	Data on design-based releases by AP 1000 reactors
Folder 204	List of ores and minerals deposits – report extract from National Balance of Stocks and
	Resources;
	Specialised map containing information on the deposits of ores and minerals under
	Item 1 and the areas under concession;
	Specialised map containing information on the permits for search for and
	investigation on registered geological discoveries;
Folder 205	Updated scheme of precautionary protective action planning zones
Folder 206	Technical and economic analysis concerning the building of a new nuclear capacity at
1 01461 200	the site of Kozloduy NPP – Westinghouse Electric Spain
Folder 207	DATA ON ISSUES CONCERNING THE TWO RELATED PROJECTS - REPLIES TO
1 older 207	QUESTIONS
Folder 208	Written summary data report on submitted investment intentions concerning
roluel 200	industrial production enterprises located in the areas within the 30-km zone round
	Kozloduy NPP over the 2008-2012 period, the report being issued by RIEW-Montana
Ealdon 200	
Folder 209	Copies of protocols from radiological monitoring exercises conducted on all
	components on the territory of the Kozloduy NPP site during 2002, 2008 and 2012
	(2011); data on the monitoring of biological indicators for the rivers Ogosta, Skut,
E 11 040	Tsibritsa - over the 2010-2012 period;
Folder 210	Data on water levels at the Lom and Oryahovo stations for the 2002-2012 period;
	Data on water quantity levels at the Lom and Oryahovo stations for the 2002-2012
	period;
	Data on water temperature levels at the Lom and Oryahovo stations for the 2002-2012
	period;
Folder 211	Latest data on the water quality in the Danube River at the following points:
	BG1DU01119MS010M, BG1DU01119MS010L, BGDU00039MS050 for the 2010-2012
	period
Folder 212	Written summary data report by RIEW-Vratsa on the investment proposals
	concerning the 30-km zone of Kozloduy NPP over the 2008-2012 period, paper copy
Folder 213	Data on releases by AP 1000 reactor
Folder 214	Water Supply and Sewerage Company Montana, List of water sources falling within
	the 30-km zone of Kozloduy NPP; No. of items - 1 List
Folder 215	Water Supply and Sewerage Company Vratsa, List of water sources falling within the
	30-km zone of Kozloduy NPP, complete with their individual capacities and exact
	locations as per Water Use Permit No. 262 /04.05.2001; No. of items - 1 List
Folder 216	Letter with Outgoing Correspondence No. 473/dated 06.06.2013, Subject: Hand-over
	of electronic data on an electronic data carrier by virtue of Hand-Over Protocol No.
	37/dated 06.06.2013 on:
	Data: Comprehensive Radioactive Waste Management Programme for implementation
	by Kozloduy NPP EAD, identification No. ДОД.ЕД.ПМ.387/06 – No. of items: 1 CD.
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