



South Stream Offshore Pipeline – Turkish Sector

**Environmental and Social Impact
Assessment (ESIA) – Appendices**

June 2014

Appendices

APPENDIX 2.1 National Legislation

APPENDIX 6.1 Comments Received during the Development Phase

APPENDIX 6.2 Engagement Activities to Date

APPENDIX 7.1 Atmospheric Emissions from South Stream Offshore Pipeline – Turkish Sector – Construction and Pre-Commissioning Phase

APPENDIX 8.1 Underwater Noise Assessment

APPENDIX 8.2 Seabed Survey Report

APPENDIX 9.1 Fishing Study

APPENDIX 9.2 Occupational Health and Safety

APPENDIX 10.1 Consultation Correspondence

APPENDIX 10.2 Inventory of Marine Cultural Heritage

APPENDIX 10.3 Marine Geophysical, Environmental and Archaeological Survey Methods

APPENDIX 11.1 Ecosystem Service Checklist

APPENDIX 11.2 Scoping Results

APPENDIX 11.3 Impact Assessment – Construction and Pre Commissioning Phase and Operational Phase

APPENDIX 13.1 Maritime Risk Assessment and Oil Spill Modelling

APPENDIX 13.2 Maritime Risk Marine Geohazards

Appendix 2.1: National Legislation

Legislation	Legislation Number and Date (Official Gazette)	Relevance to Project
General		
Environmental Law, No: 2872	Date: 11 August 1983 and No: 18132, amended by Law no. 5491 and dated 26.04.2006	Sets a framework for environmental issues and introduces sustainable development principles as a cross-cutting policy, in particular for energy, transport and agriculture.
EIA Regulation	Date: 17 July 2008 and No: 26939	Governs the EIA content, the applicable administrative and technical principles and procedures as well as the monitoring and auditing procedures.
Regulation on Permits and Licenses to be Obtained Under the Environmental Law	Date: 29 April 2009 and No: 27214	Defines the responsibilities of the competent authorities, the environmental management units, the environmental officers and the environmental consultancy firms that take part in works related to permitting and licenses. This regulation also defines the enterprises subject to environmental permits and licenses.
Decision on Turkish Economic Exclusive Zone as an annex to the Decree	Date: 5 December 1986 and No: 86-11264	<p>This Decision covers the provisions in the Turkish Exclusive Economic Zone in the Black Sea, that vessels of other States shall enjoy the freedom of navigation and the aircraft of other States shall enjoy the freedom of over flight. Likewise, other States shall enjoy the freedom of the laying of submarine cables and pipelines in this zone.</p> <p>However, in the exercise of these freedoms the legislation of Turkey and general practice shall be complied with.</p>
Waste and Wastewater		
Regulation on Water Pollution Control	Date: 31 December 2004 and No: 25687	Sets the legal and technical principles to be followed in the control of water pollution taking into consideration the sustainable development objectives.
Regulation on General Principles of Waste Management	Date: 05 July 2008 and No: 26927	Establishes general principles concerning management of wastes from their production to disposal.

Continued...

Legislation	Legislation Number and Date (Official Gazette)	Relevance to Project
Regulation on the Control of Hazardous Wastes	Date: 14 March 2005 and No: 25755	Lays down the principles and procedures for production, collection, temporary storage, transportation, exportation, recycling and disposal of hazardous wastes.
Regulation on Control of Solid Waste	Date: 14 March 1991 and No: 20814	Lays down the principles and procedures for production, collection, temporary storage, recycling, and disposal of solid wastes.
Regulation on Control of Waste Oils	Date: 30 July 2008 and No: 26952.	Provides principles and technical standards for production, temporary storage, collection, transportation, recovery and disposal of waste oils and to prevent their discharge into the receiving environment.
Regulation on the Control of Waste Batteries and Accumulators	Date: 31 August 2004 and No: 25569	Provides standards for the labelling, marking and reducing the amount of hazardous materials in manufacturing process and collection, transportation and disposal of waste batteries and accumulators.
Regulation on the Control of Medical Wastes	Date: 22 July 2005 and No: 25883	Provides principles and standards for separation at source, temporary storage, transportation and disposal of medical waste and to prevent their discharge into the receiving environment.
Regulation on Control of Packaging Waste	Date: 24 August 2011 and No: 28035	Governs administrative and technical standards for separate collection at source, recycling, transportation and disposal of packaging waste.
Regulation on Reception of Waste from Vessels and Control of Wastes	Date: 26 December 2004 and No: 25682	Lays down the principles and procedures on waste reception from ships in ports. Defines the requirements related to receiving, storing and transporting of wastes from vessels as well as providing methods and principles concerning the establishment and operation of waste reception facilities in harbours.
Regulation on Control of Waste Vegetable Oil	Date: 14 September 2005 and No: 25791	Provides legal and technical principles for temporary storage, collection, transportation, recovery and disposal of waste vegetable oil.

Continued...

Legislation	Legislation Number and Date (Official Gazette)	Relevance to Project
Regulation on the Control of Pollution in Water and Its Environment due to Hazardous Substances	Date: 26 November 2005 and No: 26005	Provides principles and procedures for the detection, prevention and gradually reduction of water pollution caused by hazardous substances.
Regulation on Declaration According to the SOLAS (Safety of Life At Sea) and MARPOL (International Convention for the Prevention of Pollution from Ships) Conventions	Date: 11 August 2006 and No: 26256	<p>Sets forth principles and procedures for reporting, communication and notification activities within the scope of SOLAS and MARPOL Conventions.</p> <p>Turkey has ratified the MARPOL Annex I, II and V with the Minister Council Decision numbered 90/442 (24 June 1990 dated and No: 20558) This annexes came into force in 10 January 1991. Also Annex III, IV and VI have been appropriated for accession.</p>
<i>Air Quality and Noise</i>		
Regulation on Reduction of Ozone Layer Depleting Substances	Date: 12 November 2008 and No: 27052	Provides guidelines on decreasing the use of ozone layer depleting substances in line with the Montreal Protocol.
Regulation on the Reduction of Sulphur Content of Certain Fuels.	Date: 6 October 2009 and No: 27368	Limits the sulphur dioxide content of certain fuel types or reduction of sulphur dioxide emissions and auditing, sampling and reporting of certain fuel types, within SOx emission control zones in marine jurisdiction or specified pollution control areas in the Republic of Turkey.
Regulation on Air Quality Assessment and Management	Date: 6 June 2008 and No: 26898	Sets limits for ambient air quality parameters.
By-Law on Environmental Noise Assessment and Management	Date: 7 March 2008 and No: 26809	Provides principles and procedures for the environmental noise and environmental vibrations.
<i>Ecology</i>		
Law on Aquatic Products, No: 1380	Date: 4 April 1971 and No: 13799	Lays down provisions for the protection, production and inspection of aquatic products.
Regulation on Aquatic Products	Date: 10 March 1995 and No: 22223	Lays down provisions for the implementation of Law No. 1380.

Continued...

Legislation	Legislation Number and Date (Official Gazette)	Relevance to Project
<i>Cultural Heritage</i>		
Law on the Conservation of Cultural and Natural Assets, No: 2863	Date: 23 July 1983 and No: 18113	Sets the foundations of conservation through registering particular assets. This legislation also covers underwater cultural heritage and obligation to notification in case of discovering any cultural assets.
Regulation on the Collection and Control of Movable Cultural and Natural Property to be Protected (17 January 1984)	Date: 20 April 2009 and No: 27206	Regulates the collection and control of movable cultural heritage (mostly for archaeological object collectors). Applies to offshore cultural heritage.
Regulation on Treasure Hunting (1984)	Date 27 January 1984 and No: 18294	This regulation governs treasure hunters stating where and how to apply for the permit for work. All the sites have to be un-archaeological sites permitted by ministry of cultural and tourism. This legislation also covers underwater treasures.
Regulation on Survey, Sounding and Excavation to be Performed in Relation to Cultural and Natural Property (10 August 1984)	Date 10 August 1984 and No: 18485	Covers the regulation of the any scientific archaeological activities. It covers both underwater and land. Any survey and excavating work has to follow these rules.
Regulation on the Identification and Registration of Immovable Cultural and Natural Property to be Protected (10 December 1987)	Date 10 December 1987 and No: 19660	Provides the identification and registration of the immovable cultural and natural property. Land and underwater archaeological protection sites are classified.
Regulation on the Classification, Registration and Admission to the Museum of the Movable Cultural and Natural Assets Requiring Preservation (20 April 2009)	Date: 20 April 2009 and No: 27206 (Last revised: Date 15 August 2013 and No: 28736)	Provides principles and procedures for the classification, registration and admission of the movable cultural, archaeological and natural property which has to be delivered to the museums. This regulation covers both land and underwater sites.

Continued...

Legislation	Legislation Number and Date (Official Gazette)	Relevance to Project
Decision of Council Ministers on The Cultural and Natural Assets Under Water that need to be Protected	Date 6 August 2001 and No: 2001/2952	Ministers Council Decision is related on the implementation of the ban for diving within the areas that are determined by Ministry of Culture and Tourism for Protection of Cultural and Natural Heritage.
Law Confirming the Approval for the European Convention on the Protection of the Archaeological Heritage (revised)	Date : 05 August 1999 and No: 4434	Lays down provisions for the determination of identity of heritage and conservation measures.
<i>Socio-Economic</i>		
Law on Military Forbidden Zone and Security Zone, No:2565	Date: 22 December 1981 and No: 17552	Lays down provisions for the set-up of military forbidden zone or removed with the decision of Council of Ministers if deemed necessary by the General Staff.
Law on Services for Navigation and Hydrography, No. 1738	Date: 7 June 1973 and No: 14557	Lays down provisions to assess and ensure safety of life and property in and on the seas and to give opinion during the preparation of projects and plans for all kinds of facilities to be built or contracted to third parties by competent bodies as well as regulations concerning maritime traffic, ports and waterways for safety and facility of navigation.
Law on Aquatic Products, No: 1380	Date: 4 April 1971 and No: 13799	Lays down provisions for the protection, production and inspection of aquatic products.
Regulation on Aquatic Products	Date: 10 March 1995 and No: 22223	Lays down provisions for the implementation of Law No. 1380.
Regulation on Declaration According to the SOLAS and MARPOL Conventions	Date: 11 August 2006 and No: 26256	Sets forth principles and procedures for reporting, communication and notification activities within the scope of SOLAS and MARPOL Conventions.
Law on Works Permits for Foreigners No. 4817	Date:06 March 2003 and No: 25040	Lays down provisions for permits are required to be taken for foreign workers who do not have Turkish citizenship to be employed in the project from out of Turkey.

Continued...

Legislation	Legislation Number and Date (Official Gazette)	Relevance to Project
Regulation on the Control of Major Industrial Accidents	Date: 18 August 2010 and No: 27676	Lays down provisions to prevent major accidents caused by dangerous substances
Law regarding protection of goods and individuals on sea No :4922	Date: 14 June 1946 and No: 6333	Sets safety measures to be taken and permits to be obtained to operate ships in Turkish waters. This law covers the provisions on safety for Turkish ships and foreign ships travelling in Turkish ports and waters.
Labour Law, No: 4857	Date: 10 June 2003 and No: 25134	Regulate the working conditions and work-related rights and obligations of employers and employees working under an employment contract.
<i>Emergencies</i>		
Law regarding emergency measures and compensation rules for marine pollution due to oil and hazardous substances, No: 5312	Date: 11 March 2005 and No: 25752	Includes requirements for establishing emergency measures and plans on board and at coastal facilities.
Implementing Regulation of Law on Response to Emergencies and Compensation of Losses in Case of Pollution of the Marine Environment from Oil and Other Harmful Substance	Date: 21 October 2006 and No: 26326	Lays down provisions for implementation of the Law No. 5312 (see above).

Complete.