Supporting Document for the Arctic Council Offshore Oil and Gas Guidelines: Systems Safety Management and Safety Culture

Safety Systems Elements in Regulations of Norway, Canada, Greenland and the United States, and of the PAME AOOGG 2009

This table contains 30 elements of Safety Management Systems regulated by selected Arctic countries. The regulations for countries not shown were not readily available for the construction of this table. This table will be updated as part of the Arctic Offshore Oil and Gas Regulatory Resource webpage. The report that this Table was developed for did not use this information to do a comparison or analysis, but the reader is welcome to use this information as appropriate.

Safety Management Systems for Offshore Oil and Gas Operations in the Arctic						
Safety Management System Element	Norway Petroleum Safety Authority (PSA) www.ptil.no/	Canada National Energy Board (NEB) www.neb-one.gc.ca	(MLSA)	United States Bureau of Safety and Environmental Enforcement (BSEE) www.bsee.gov	Arctic Council Offshore Oil and Gas Guidelines 2009 www.pame.is	
Objectives and Strategies (Goals)	<u>C3 87</u>	Part 2 Management System, 5(1), 5(2)(a, b)	EO §19	CFR §250.1900; §250.1901; §250.1909 (a)	p26; p89	
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			<u>§21</u>	§ 250.1920;	
				<u>§250.1921</u> ;	
				<u>§250.1922</u> ;	
				<u>§250.1924</u> ;	
				<u>§250.1925</u> ;	
				§ 250.1929	
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				§250.1932	
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		<u>System</u> , 5(2)(c)	EO chapter 6	<u>§250.1913</u>	
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For the United States: (Current 12/10/13)

30 CFR Subpart S—SAFETY AND ENVIRONMENTAL MANAGEMENT SYSTEMS (SEMS) including Form BSEE–0131, Performance Measures Data

For Canada: (Acts and associated Regulations are current to 2012-02-20) Canada Oil and Gas Operations Act (O-7) (COGO Act), http://laws-lois.justice.gc.ca/eng/acts/O-7/FullTet.html

- Canada Oil and Gas Drilling and Production Regulations (SOR/2009-315), http://laws-lois.justice.gc.ca/PDF/SOR-2009-315.pdf
- Canada Oil and Gas Certificate of Fitness Regulations (SOR/96-114), http://laws-lois.justice.gc.ca/eng/regulations/SOR-96-114/FullTet.html

Canada Labour Code, Part II, (R.S.C., 1985, c. L-2), http://laws-lois.justice.gc.ca/eng/acts/L-2/FullTet.html

• Oil and Gas Occupational Safety and Health Regulations (SOR/87-612), http://laws-lois.justice.gc.ca/eng/regulations/SOR-87-612/FullTet.html

For Norway:

Regulations Relating to Management and the Duty to Provide Information in the Petroleum Activities and at Certain Onshore Facilities (The Management Regulations) http://www.ptil.no/management/category401.html# Toc280619385

For Greenland:

Health, Safety and Environment connected to hydrocarbon drilling activities in Greenland are regulated after:

- The Mineral Resources Act ("MRA")(framework act), chapter 13, 14, 15: environmental protection, environmental liability, environmental impact assessment, chapter 17: health and safety for offshore installations http://www.govmin.gl/images/stories/faelles/mineral_resources_act_unofficial_translation.pdf
- Executive order on health and safety in connection with offshore hydrocarbon activities in Greenland (draft, expected issued within a short while) ("EO")
 http://dk.nanoq.gl/Service/Hoeringsportal/Bekendtgoerelser/2011/sikkerhed%20og%20sundhed%20på%20mobile%20offshoreanlæg%20ifb%20med%20offshore%20kulbrinteaktiviteter%20i%20Grønland.asp
- MLSA exploration drilling guidelines (DG) http://www.govmin.gl/images/stories/petroleum/110502 Drilling Guidelines.pdf
- MLSA guidelines for preparing an Environmental Impact Assessment (EIA) http://www.govmin.gl/images/stories/petroleum/BMP_EIA_Guidelines_Jan_2011.pdf
- MLSA terms of approval for an exploration drilling programme http://www.govmin.gl/petroleum/approval-of-activities/exploration-drilling
 - o In approving the exploration drilling activities the MLSA will adhere to the NORSOK standards, e.g.:
 - NORSOK D-010: NORSOK Standard D-010, August 2004, Well Integrity in Drilling and Well operations.
 NORSOK D-SR-007: NORSOK Standard D-SR-007, Jan 1996, System Requirements Well Testing Systems.
 - NORSOK R-003: NORSOK Standard R-003, July 2004, Safe use of lifting equipment..

- NORSOK S-001: NORSOK Standard S-001, February 2008, Technical Safety..
- NORSOK S-003: NORSOK Standard S-003, December 2005, Environmental Care.
- NORSOK Z-013: NORSOK Standard Z-013, Oct. 2010, Risk and emergency..

For the Arctic Council:

Arctic Offshore Oil and Gas Guidelines 2009 www.pame.is