



## APPENDIX 2

# Legal requirements to Occupational Health and Hygiene

## Purpose

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To:

- List key regulatory requirements for managing Occupational Health and Hygiene in *Sakhalin Energy Assets*<sup>1</sup> and activities, and to provide a Guidance overview of these requirements.
- Specify international requirements or guidelines fully or partially adopted by Sakhalin Energy in relation to *Occupational Health and Hygiene*<sup>1</sup>,
- Provide a summary of the Lender's requirements in relation to *Sakhalin Energy Assets* and activities, provide comments regarding compliance, and identify any approved exceptions/deviations/derogations.

## Who is this for?

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- *Managers;*
- *HSE Professionals;*
- *Occupational Health and Hygiene Specialists.*

## General Health Requirements

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Legislative general health requirements are provided in the following Russian Federal (RF) legislation:

- Federal Law № 323-FZ from 21.11.2011 - «About bases of health protection of citizens in the Russian Federation».
- Federal Law №38-FZ from 30.03.1995 - Prevention of spread of infection caused by Human Immunodeficiency Virus in Russian Federation.
- Decree Government of Russian Federation № 1158 from 25.11.1995 – About the requirements for HIV certificate for expatriates applying for work permit.
- Federal Law № 77-FZ from 18.06.2001- Prevention of spread of tuberculosis in Russian Federation.
- On approval of basic setting regarding the shift work application. Joint Decree of State Labor Committee, State secretariat of Trade Unions, Ministry of Health care of the USSR of 31 December 1987 N 794/33-82.
- Order of the RF Ministry of Health from 29.06.2015 №384n "On approval of the list of infectious diseases that are dangerous for others and are the basis for refusing to issue or revoke the permit for temporary residence of foreign citizens and stateless persons, or residence permits, or a patent, or Permission to work in the Russian Federation, as well as the procedure for confirming their presence or absence, as well as the form of a medical report on the presence (of absence) of these diseases".
- Order of Ministry of Public Health and Social Development RF from 12.04.2011 № 302n "About the approval of lists harmful and (or) dangerous production factors and works at which performance obligatory preliminary and periodic medical examinations (inspections), and the Order of carrying out obligatory preliminary and periodic medical examinations (inspections) of the workers occupied on a hard work and on works with harmful and (or) dangerous working conditions are carried out".
- Order of the Ministry of Public Health and Social Development RF from 04.05.2012 № 477n "On the approval of the list of conditions in which the first aid is provided, and the list of first aid measures."
- Order of the Ministry of Public Health and Social Development RF from 05.03.2011 № 169n "On the approval of requirements to a complete set product of medical purpose of first-aid kits for first-aid to workers".
- Order of Ministry of Public Health and the Medical Industry RF from 20.08.1996 r. № 325 "On the statement of structure and recommendations about use of the first-aid kit (for vehicles)"
- Order of Ministry of Public Health RF from 11.03.2013 № 121 n "On the approval of requirements to the organization and performance of work (services) when rendering primary medical and sanitary, specialized (including hi-tech), fast (including fast specialized), palliative medical care, rendering medical

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<sup>1</sup> Italicized terms in this document are included in the Sakhalin Energy HSE Glossary.



care at sanatorium treatment, when carrying out medical examinations, medical examinations, medical surveys and sanitary and anti-epidemic (preventive) actions within rendering medical care, at transplantation (change) of bodies and (or) fabrics, the address of donor blood and (or) its components in the medical purposes".

- Decree of Government of Russian Federation № 291 from 16.04.2012 – “About Licensing of Medical Activity”.
- Order of RF Ministry of Health from 21.03.2014 №125n “On the approval of the national calendar of preventive vaccinations and the calendar of preventive vaccinations for epidemic indications”.
- Federal Law from 23.02.2013 №15-FZ “On Health protection of citizens from effects of environmental tobacco smoke and consequences of tobacco consumption”.

### Alcohol and Drugs

Legal requirements relating to Drugs and alcohol are provided in the following main Russian Federal (RF) documents:

- Labor Code of Russian Federation from 30.12.2001 №197-FZ, Articles 76, 81, 242, 243.
- RF Code of Administrative offences from 30.12.2001 №195-FZ, Article 12.8.
- Order of RF Ministry of Health from 18.12.2015 №933n “On Procedure for carrying out a medical examination for intoxication (alcohol, drug or other toxic).
- Letter of Ministry of Healthcare of the RF of 21st August 2003 N 2510/9468-03-32 “On pre-drive checks of drivers of vehicles”.
- Federal Law from 08.01.1998 № 3-FZ “About narcotic and psychotropic substances”.
- Order of RF Ministry of Health from 27.01.2006 №40 “On organization of chemical and toxicological testing in the event of analytical diagnosis of presence of alcohol, narcotic, psychotropic and other toxic substances in a human organism”.
- Decree of the RG Government from 30.06.1998 №681 “On the approval of the list of narcotic drugs, psychotropic substances and their precursors subjected to control in the Russian Federation”. General Hygienic Requirements

### Legislative general hygienic requirements are provided in the following Russian Federal (RF) legislation:

- Federal Law from 30.03.1999 № 52-FZ “On sanitary-epidemiological welfare of population”.
- Federal law from 28.12.2013 № 426-FZ “On special assessment of working conditions”.
- SP 4156-86 Hygienic requirements for petroleum industry.
- SP 4056-85 Hygienic requirements for floating drilling rig.
- SP 1.1.1058-01 Organization and implementation of industrial control over the compliance to sanitary rules and the implementation of sanitary and anti-epidemic (preventive) measures.
- R 2.2.2006-05 Health assessment guide for work environment and labour factors. Criteria and classification of working conditions.
- SP 2.2.2.1327-03 Hygienic requirements to industrial process organization, industrial equipment and tools.
- SanPiN 2.2.4.3359-16 Sanitary-epidemiological requirements to occupational physical hazards.

### Hearing Conservation

Legislative requirements for hearing conservation are provided in the following Russian Federal (RF) legislation:

- SSBT GOST 12.1.003-83 - Noise. General Safety Requirements.



- SSBT 12.1.036-81 - Noise. Limits for housing and public buildings.
- SN 2.2.4/2 1.8.562-96 - Noise at Work Places, housing and public buildings and living areas.
- MU 1844-78 - Guidelines for the measurement and hygienic evaluation of noise in the workplace.
- GOST 12.1.029-80 (ST CMEA 1928-79), - Occupational safety standards system. Means and methods of noise protection. Classification.
- GOST R ISO 9612-2013, - Acoustics. Noise measurement for the purpose of evaluating human exposure to noise. Method of measurements at workplaces.
- GOST R ISO 3746-2013 – Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Survey methods using an enveloping measurement surface over a reflecting plane.
- GOST 17187-2010 Sound level meters. Part 1. Technical requirements.
- GOST 23941-2002 Noise of machines. Methods for determination of noise characteristics. General requirements.

### **Vibration**

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Legislative requirements for vibration are provided in the following Russian Federal (RF) normative documents:

- SN 2.2.4/2.1.8.566-96 "Industrial vibration, vibration in accommodation and public buildings"
- GOST 12.1.049-86 Occupational safety standards system. Vibration. Methods for measurement on operator's seats of automotive wheel road-construction vehicles.
- GOST 12.1.012-2004, Occupational safety standards system. Vibration safety. General requirements.

### **Lighting**

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Legislative requirements for lighting are provided in the following Russian Federal (RF) normative documents:

- SP 52.13330.2011 Daylighting and artificial lighting. (sections 1 (items 1.1, 1.2), 4 - 6, 7 (items 7.1 - 7.35, 7.37, 7.38, 7.40, 7.45 - 7.86, 7.101 - 7.122), app. K).
- SanPin 2.2.1/2.1.1.1278-03 "Hygienic requirements for Daylight, Artificial Lighting and Combined Lighting in housing and public buildings".
- MU 2.2.4.706-98 /MU OT PM 01-98 "Evaluation of Lighting in Work Places".

### **Air Ionisation**

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Legislative requirements for air ionization are provided in the following Russian Federal (RF) normative document:

- SanPiN 2.2.4.1294-03 «Sanitary-Hygienic norms for permissible levels of air ionisation in work places and public premises».

### **Electromagnetic fields**

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Legislative requirements for electromagnetic field are provided in the following Russian Federal (RF) normative document:

- SanPiN 2.1.8/2.2.4.1383-03 Hygienic requirements for the placement and operation of radio transmitting equipment.



## Ionising radiation

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Legislative requirements for ionizing radiation are provided in the following Russian Federal (RF) normative documents:

- SP 2.6.1.2612-10 Fundamental sanitary rules for Radiation Safety
- SP 2.6.1.3164-14 Hygienic requirements to Radiation Safety for X-ray defectoscopy.
- SP 2.6.1.3241-14 Hygienic requirements to Radiation Safety for radionuclide defectoscopy.
- SanPiN 2.6.1.2800-10 Hygienic requirements on restriction of radiation of the population at the expense of ionizing radiation sources.
- SanPiN 2.6.1.2523-09 Radiation Safety Standards.

## Chemical Factors

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Legislative requirements for chemical factors are provided in the following Russian Federal (RF) normative documents:

- GOST 12.1.005-88 Occupational safety standards system. General sanitary requirements for working zone air.
- GN 2.2.5.1313-03 Chemical Factors of occupational Environment. Maximum permissible concentrations (MPCs) of hazardous substances in air at working area".
- GN 2.2.5.2308-07 "Estimated safe exposure levels of hazardous substances in air at working area".

## Work Place Indoor Climate

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Legal requirements relating to Work place indoor climate are provided in the following Russian Federal (RF) document:

- SanPin 2.2.4.548-96 Hygienic requirements for indoor climate at Work Places.

## Office Ergonomics

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Legal requirements relating to office ergonomics are provided in the following Russian Federal (RF) document:

- SanPiN 2.2.2/2.4.1340-03 Hygienic requirements for personal computers and set up of work with personal computers.

## Food, water, medical facilities

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Legislative requirements provided in the following Russian Federal (RF) normative document:

- SanPiN 2.3.6.1079-01 Sanitary-epidemiological requirements for catering organizations, cooking and processing of food and raw products.
- SanPiN 2.3.2.1324-03 Hygienic requirements for shelf life and storage conditions of food products.
- SanPiN 2.1.4.1074-01 Potable Water. Hygiene Requirements to Water Quality in Centralized Water Systems. Quality Control.
- SanPiN 2.1.3.2630-10 Sanitary-epidemiological requirements for organizations engaged in medical activities.
- SanPiN 2.1.7.2790-10 Sanitary and epidemiological requirements for the treatment of medical waste



## HIV infection

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- Federal law from 30.03.1995 № 38-FZ "On prevention of spread of HIV infection in the RF".
- SP 3.1.5.2826-10 Prevention of HIV-infection.

## International Requirements

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Sakhalin Energy shall comply with the following conventions, standards and other requirements, except where exceptions/derogations exist.

- IFC Environmental, Health, and Safety (EHS) Guidelines. General EHS Guidelines: Occupational Health and Safety. April 2007
- IFC EHS Guidelines. Onshore Oil and Gas Development. April 2007
- IFC EHS Guidelines. Offshore Oil and Gas Development. June 2015
- IFC EHS Guidelines. LNG Facilities. April 2017
- IFC Performance Standard 4. Community Health, Safety and Security. Clauses 1-11. (January 2012).
- IFC Performance Standard 2. Labour and Working Condition. Clause 23. (January 2012).
- ILO Code of Practice on HIV/AIDS and the world of work (2001).
- EU Council Directive 89/391/EEC – (On the introduction of measures to encourage improvements in the safety and health of workers at work).
- EU Council Directive 92/104/EEC (On the minimum requirements for improving the safety and health protection of workers in surface and underground mineral-extracting industries as amended by Directive 2007/30).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures ('CLP Regulation').
- EU Council Directive 98/24/EC (Chemical Agents Directive as amended by Directives 2007/30/EC and 2014/27/EU).
- Shell HSSE & SP Control Framework, Health Manual (2016).
- IOGP Report 343. Managing health for field operations in oil & gas activities (Revision – Version 1).
- IOGP Report 445. Substance misuse: A guide for managers and supervisors in the oil and gas industry.
- IOGP Report 470. Fitness to work. IOGP Report 397. A guide to Food and Water Safety.
- IOGP Report 384. A roadmap to Health Risk Assessment in the oil and gas industry.
- IOGP Report 396. Drilling fluids and health risk management.
- IOGP Report 398. Health aspects of work in extreme climates.
- IOGP Report 412. Management Naturally Occurring Radioactive Material (NORM) in the oil & gas industry.
- IOGP Report 378. Managing workplace stress.
- IOGP Report 392. Managing fatigue in the workplace.
- IOGP Report 536. Fatigue in Fly in Fly out operations.
- IOGP Report 374. HIV/AIDS management in the oil & gas industry.
- IOGP report 548. Health Impact Assessments. A guide for the oil and gas industry.



## Occupational Health and Hygiene Standard

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Sakhalin Energy shall, where appropriate, incorporate the following good practice recommendations into its standards, guidelines and work practices

- IOGP / IPIECA Health guides and guidance documents, not referenced above
- Occupational Exposure Limits (OEL) and Threshold Limit Values (TLV) defined in the American Conference of Governmental Industrial Hygienists.
- International Agency for Research on Cancer (IARC) listed in IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Series.