



## Community Health

### Purpose

To avoid the potential to impact on the health of the local community and harm to people due to *Health Hazards*.

### What situations are covered?

This Specification is applicable both to construction and operation activities if otherwise stated.

### Requirements

Issue or Impact	Criteria under which circumstance mitigation is to be applied	Mitigation (any commitment or obligation to take action to avoid, minimise or reduce an impact)	Compliance (i.e. Monitoring)	Reference	Project Stage
<p>Risk of sexually transmitted diseases (STDs) including</p> <ul style="list-style-type: none"> <li>• HIV/AIDS;</li> <li>• Syphilis;</li> <li>• Gonorrhoea;</li> <li>• Hepatitis B and C;</li> <li>• And other communicable illnesses within STD category.</li> </ul> <p>Risk groups include:</p> <ul style="list-style-type: none"> <li>• Resident populations;</li> <li>• Workforce;</li> <li>• Family of workforce;</li> <li>• Camp followers and commercial sex workers;</li> <li>• IV drug users;</li> <li>• Economically deprived;</li> <li>• Vertical transmission to newborns</li> </ul>	<p>Measures to reduce risk from infectious disease will be required prior to, and during contact of workforce with resident populations.</p>	<p>Pre-employment health screening in compliance with RF legislation with objective to assess staff medical fitness prior to employment to anticipate and prevent, where possible, the occurrence of ill health at work which could place the individual, colleagues and the wider community at risk.</p> <p>Health awareness programs available for all staff and contractors.</p> <p>Implement company standard related to HIV/AIDS and Blood Borne Pathogens.</p> <p>HIV/AIDS statistics is available on request from the public health authorities.</p> <p>Conduct Hepatitis B immunisation and awareness program for all Sakhalin Energy workers, contractors, medical personnel and emergency response teams in compliance with Russian Federation legislation.</p> <p>Camp management philosophy and camp design with recreation facility and free access to the means of individual protection (condoms).</p>	<p>The Sakhalin Energy health team periodically audit a random sample of medical fitness examinations of the workforce.</p> <p>Asset teams and Corporate HSE jointly audit medical fitness of the workforce.</p> <p>Monitoring camp and contractor compliance through health and social compliance monitoring.</p>	<p>Balint, Boelens &amp; Debello. 2003. Sakhalin Energy Phase 2 Development HIA. (chapters 9-14)</p> <p>For operational phase HIV/AIDS issues for Company and Contractor personnel is covered by Sakhalin Energy Occupational</p>	<p>Applicable in case of large-scale construction works with a significant potential for community health impacts and with a major proportion of non-resident workforce</p>



# OCCUPATIONAL HEALTH AND HYGIENE STANDARD

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<p>from carriers; and</p> <ul style="list-style-type: none"> <li>• Medical professionals</li> </ul> <p>Risk of transmission: the high likelihood of unprotected intercourse poses a significant risk to local communities and workers, as well as to health practitioners that may come in contact with infected individuals as part of their professional duties (all medical and emergency response staff).</p>		<p>Quality treatment (contact tracing) for STDs.</p> <p>STD diagnostics at local health facilities for use by both local communities and workforce. Ensure treatment and counselling is available for infected individuals in workforce.</p>		<p>Health and Hygiene Standard</p>	
<p>Risk of TB transmission within the workforce and to the resident population.</p> <p>There is a reservoir of TB in the prison population developing a degree of drug resistance, a gradual release to the general population and no Directly Observed Therapy (DOT) implemented.</p> <p>Risk groups include:</p> <ul style="list-style-type: none"> <li>• Workforce in contact with local population;</li> <li>• Homeless and economically deprived;</li> <li>• Elderly;</li> <li>• Commercial sex workers;</li> <li>• Imuno-suppressed (HIV positive);</li> <li>• Poorly nourished; and</li> <li>• Alcohol addicts and other substance abusers.</li> </ul>	<p>Pre-employment screening and inoculation are to be implemented to reduce workforce exposure and transmission.</p> <p>Further mitigation will be required in any circumstance where the workforce is in contact with local populations at risk, or have been subject to local incarceration or institutionalised.</p>	<p>Staff medical fitness will be assessed prior to employment to anticipate and prevent where possible the occurrence of ill health at work which could place the individual, colleagues and the wider community at risk.</p> <p>Company and contractor health and periodic TB screening for workforce in accordance with Russian federation legislation.</p> <p>Assist local authorities on their request in improving TB prevention, care and management programmes for the local communities.</p> <p>Good quality case identification, treatment and follow-up surveillance of the workforce, based on DOTS in line with internationally accepted standards and practices.</p> <p>Relevant statistical data are made available to the Company's Health Department on request (by the public health authorities).</p>	<p>Sakhalin Energy Health Department regularly monitor the implementation of the public health TB program that is carried out by the state health authorities.</p> <p>All staff is regularly examined in compliance with RF Legislation and Sakhalin Energy Occupational Health and Hygiene Standard.</p> <p>The Sakhalin Energy health team periodically audit a random sample of medical fitness</p>	<p>Balint, Boelens &amp; Debello. 2003. Sakhalin Energy Phase 2 Development HIA. (chapters 9-14)</p> <p>Company and Contractor personnel are covered by Sakhalin Energy Occupational Health and Hygiene Standard.</p>	<p>Applicable in case of large-scale construction works with a significant potential for community health impacts and with a major proportion of non-resident workforce</p>



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			examination records. Asset teams and Corporate HSE will jointly audit medical fitness of the workforce.		
<p>Risk from zoonotic bacterial and vector-borne diseases to the workforce including:</p> <ul style="list-style-type: none"> <li>• Tularemia;</li> <li>• Tick borne encephalitis;</li> <li>• Lyme disease;</li> <li>• Leptospirosis;</li> <li>• Q Fever;</li> <li>• Cholera; and</li> <li>• Helminthiasis.</li> </ul> <p>Risk of transmission of these diseases between workforce and local communities when in contact.</p> <p>Risk groups include:</p> <ul style="list-style-type: none"> <li>• Field workers involved in pipeline operations and land clearance;</li> <li>• Hunters, forest workers and farmers;</li> <li>• Off camp recreational activities; and</li> <li>• Workers subject to poor camp waste, sewage and sanitation management, as well as communities residing in proximity to such facilities.</li> </ul>	<p>To be implemented:</p> <p>In all high risk project activities, including all land clearance, project activities and field maintenance work;</p> <p>As part of all waste, sewage and sanitary management programmes;</p> <p>To prevent risk during recreational excursions, also to be implemented through camp management policy; and</p> <p>In all high risk areas, i.e. in proximity to reservoirs, waste sites, known vector infestation and quarantine areas.</p>	<p>Conduct risk-based immunization program of the workforce in compliance with Russian Federation requirements (immunisation requirements for specific groups e.g. Hepatitis A and Typhoid for catering staff).</p> <p>It is provided by RF legislation to complete vaccination for at least Diphtheria, Tetanus, Polio (DTP) but people have the right to refuse except some designated professions for whom such vaccinations are mandatory (medical personnel, catering staff).</p> <p>In addition all Medical Staff and First aiders shall complete a vaccination program for Hepatitis B. Depending on the working activities and working location, some specific vaccinations may be required as per Russian Federation regulations. Vaccination against Tick Borne Encephalitis (TBE) vaccination is being implemented for employees working on land clearance and field maintenance work.</p> <p>Provide in all applicable cases adequate Personnel Protection Equipment including clothing, equipment, sanitary facilities and pest as defined in Sakhalin Energy Occupational Health and Hygiene Standard.</p> <p>Sakhalin Energy to implement waste, sewage and sanitation management plan to minimise risk of rodent infestation and subsequent vector borne disease, while respecting environmental principles.</p> <p>Provide adequate equipment, sanitary facilities, pest control and clean water as defined in Sakhalin Energy Occupational Health and Hygiene Standard.</p>	<p>All staff will be provided with vaccination and personnel protection equipment in relation to individual worker activity health risk in compliance with HSE Standards.</p> <p>All staff will be examined minimum every two years in compliance with RF Legislation and Sakhalin Energy Occupational Health and Hygiene Standard.</p> <p>The Sakhalin Energy health team periodically audit a random sample of medical fitness examination records.</p> <p>Asset teams and Corporate HSE jointly audit medical fitness</p>	<p>Balint, Boelens &amp; Debello. 2003. Sakhalin Energy Phase 2 Development HIA. (chapters 9-14)</p> <p>Sakhalin Energy Occupational Health and Hygiene Standard</p>	<p>Construction and operation.</p>



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		<p>Pets are not permitted in the camps.</p> <p>Train medical, paramedical and other staff in identification of zoonotic and vector-borne related diseases, and to implement the appropriate management regimes.</p> <p>Conduct water treatment on work sites and campsites. Good sanitation required on all sites.</p> <p>Periodically monitor drinking water at work and residential facilities used by the project workforce to ensure that water quality complies with the applicable standards.</p> <p>Sanitary Design Assignment for controlling potential outbreaks of food poisoning.</p> <p>Provision of hand washing water or alcohol wipes where appropriate.</p> <p>Implement fitness for duty examination for catering staff to exclude acute or chronic disease involving gastrointestinal tract, chest, ear, nose, throat and skin.</p> <p>Incorporate into design of facilities and implement workforce catering and supply standards as prescribed in Sakhalin Energy Occupational Health and Hygiene Standard to prevent incidents. Including:</p> <p>Safe supply chain for food (contractual requirement);</p> <p>Catering management in the camps including supply chain is applicable to any construction works in the future. Develop and implement adequate and standardised food and water hygiene practices for company and contractors; and</p> <p>Catering services to provide healthy meal options and support nutrition related health awareness campaigns.</p> <p>Provide good standard of accommodation.</p> <p>Commission an entomological review to determine if further management of this risk is required.</p>	<p>of the workforce.</p> <p>Sakhalin Energy conducts inspections in the accommodation facilities and catering agencies used by company staff and contractors.</p> <p>Water treatment facilities operated by the Assets are also inspected regularly.</p> <p>Sakhalin Energy and contractors periodically monitor drinking water at working and residential facilities used by the project workforce.</p> <p>Water monitoring in accordance with the (oil spill) plan.</p> <p>Sakhalin Energy assess and monitor the status of accommodation and catering standards including focus on food quality, supply and hygiene practice as well as waste management used by</p>		



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			company staff and contractors as part of an ongoing commitment to ensure HSE standards.		
Risk of exposure to and spread of common infectious diseases among the workforce and to off-site communities	Outbreaks or seasonal peaks of communicable diseases. Deployment of Company personnel and contractor workforce in remote locations.	Sakhalin Energy arranges annual Influenza immunization for all staff and Contractor workforce located on remote sites. Hepatitis B (HBV) vaccination is available for the personnel on request. In an event of occurrence/epidemic of other types of infectious illnesses, relevant types of vaccines will be made available to the workforce, and if necessary to the local communities hosting the Project workforce or residential facilities (in cooperation with public health authorities) as appropriate.	Disease incidence and immunisation are monitored by Sakhalin Energy Health Department on regular basis.	HIA Tables 14, 17, 18 and 22. Sakhalin Energy Occupational Health and Hygiene Standard. RF annual vaccination calendar	All relevant stages on request of the local health authorities and as appropriate/required for protection of Company's and contractor personnel.
Monitoring	Communicable diseases; preventative measures; public health; and lifestyle/non-communicable diseases.	Sakhalin Energy will monitor amongst its workforce and affected communities: Communicable diseases: cases of intestinal infection; Effectiveness of preventative measures: absence of cases of vector and arthropod borne disease; absence of cases of vaccine preventable diseases; Public health: compliance with drinking water monitoring plans; Lifestyle and non-communicable diseases: case breakdown of work-related and non-work related illness.	Company tracks on regular bases the epidemiological situation on Sakhalin Island by obtaining statistics from Health and Sanitary Authorities of Sakhalin Region.	HIA 16.2	Monitoring of the workforce is to be carried out routinely. Continuous tracking of the Island's epidemiological situation based on the public health data.



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<p>Risk of substance abuse by workforce and spread to resident population, resulting in:</p> <ul style="list-style-type: none"> <li>Alcoholism;</li> <li>Drug abuse;</li> <li>Antisocial behaviour;</li> <li>Crime;</li> <li>Substance overdose;</li> <li>Blood-borne disease (HIV/AIDs, Hepatitis B &amp; C); and</li> <li>Exacerbation of existing poor health conditions.</li> </ul> <p>Risk groups include:</p> <ul style="list-style-type: none"> <li>Unemployed and economically deprived;</li> <li>Commercial sex workers;</li> <li>Young adults; and</li> <li>Workforce.</li> </ul>	<p>To be addressed and implemented from onset of employment as part of worker terms and conditions.</p> <p>During any incidence where the workforce interacts with resident populations.</p>	<p>Establish contractual agreement with workers and contractors stipulating conditions where they may be made subject to a commensurate disciplinary action and/or dismissal through either the use or trafficking of illicit substances.</p> <p>Implement employee alcohol and drugs awareness, prevention, assistance and education programs. Assist and support community awareness programmes.</p> <p>Implement health standards for smoking at the workplace including awareness, prevention, employee assistance and controls at work.</p> <p>Implement smoking policy at the workplace and in residential facilities.</p> <p>Contractors to implement camp management policy in regard to alcohol and drug abuse.</p> <p>Implement Sakhalin Energy Code of Conduct for workers/employees.</p> <p>Provide recreational alternatives within camp for the workforce.</p> <p>Implement legally authorised spot checks on work personnel and property to detect and prevent the use and trafficking of illicit substances within the accommodation compound and at the workplace.</p>	<p>Company and contractors will test the workforce for illicit substances, with more frequent testing of staff and contractors working at high hazard / risk work sites in line with Russian Federation testing requirements.</p> <p>Legally authorised officers shall conduct random personnel and property searches.</p> <p>The Sakhalin Energy health team will periodically audit a random sample of the workforce to examine medical fitness, and use of illicit substances.</p>	<p>Balint, Boelens &amp; Debello. 2003. Sakhalin Energy Phase 2 Development HIA. (chapters 9-14)</p> <p>Operational phase requirements are covered by Sakhalin Energy Occupational Health and Hygiene Standard for Company employees and contractors.</p>	<p>Measures related to Company and contractor personnel are applied routinely.</p> <p>Measures related to communities are applicable in case of large-scale construction works with a significant potential for community health impacts, with a major proportion of non-resident workforce and the use of camp facilities.</p>
<p>Increased demand on existing community health care facilities in case of mass casualty event may result in reduced availability and quality of</p>	<p>Mitigation is to be applied in any circumstance that the workforce may require or impose upon existing</p>	<p>Assess staff medical fitness prior to employment to anticipate and prevent where possible the occurrence of ill health at work which could place the individual, colleagues and the wider</p>	<p>The Sakhalin Energy health team will assess worker health risk and establish</p>	<p>Balint, Boelens &amp; Debello. 2003.</p>	<p>Applicable in case of large-scale construction</p>



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<p>health care and treatment to resident populations, leading to a decrease in general health.</p> <p>Risk groups include:</p> <ul style="list-style-type: none"> <li>Resident populations.</li> </ul>	<p>community health and/or emergency response facilities or staff.</p> <p>Hospitals in communities where workforce may require or impose upon existing community health or emergency response facilities or staff.</p>	<p>community and emergency services at risk.</p> <p>Undertake health infrastructure upgrade of selected key hospitals if required to allow sufficient capacity for treatment of the workforce.</p> <p>Implement medical emergency response plan in partnership with other companies and stakeholders, to identify cumulative impacts upon health care facilities, and equally cumulative enhancement programmes in case of large-scale incidents or a series of simultaneous accidents that require major medical response.</p> <p>Where contractors are working in hazardous and remote areas, equip a clinic with the minimum requirements, medical staff and supplies as directed by the standards for local medical support. HSE clauses in contracts should specify the standards and requirements within camps.</p> <p>Sakhalin Energy will jointly work with health communities in cardio-vascular risk identification and behaviour modification programmes.</p> <p>Apply HEMP and conduct HRA.</p>	<p>internal and local health service capabilities and service demand accordingly.</p> <p>HRA conducted for all Production Assets, Remedial Action Plans negotiated.</p> <p>Actions tracked accordingly</p>	<p>Sakhalin Energy Phase 2 Development HIA. (chapters 1.3, 9-14)</p> <p>Sakhalin Energy Occupational Health and Hygiene Standard</p>	<p>works with a significant potential for community health impacts and with a major proportion of non-resident workforce.</p>
Annual Health Plan and community engagement	Project-affected communities	Sakhalin Energy shall develop an Annual Health Plan that comprises a number of community related actions if community health risks and impacts from Company's planned or on-going activities are identified as significant. This results in planned engagements with social and health authorities, which are reported as part of the PCDP.	Annual Health Plan	HIA 14.3	Applicable in case of activities where community health impacts are identified as significant.
Health data reporting	Occupational illnesses and non-accidental death incidents	Sakhalin Energy maintains annual health data reporting to the Federal Statistics Service and Ministry of Natural Resources. Reporting comprises occupational illnesses and non-accidental	Maintenance of reporting structure and evidence that	HIA 14.3 RF legislation Occupational	Throughout the project life cycle





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		<p>death incidents for Company workforce and Contractors including local personnel.</p> <p>Local Health and Sanitary authorities have to be informed on a case by case basis in case of occupational illnesses.</p>	health data have been reported as agreed between Sakhalin Energy and the local health authority.	health and Hygiene Standard	
Stewardship of hazardous substances	All locations where hazardous substances are used or stored, as well as transportation routes.	<p>Sakhalin Energy maintains Chemicals Management Specification (Appendix 9 of Occupational Health and Hygiene Standard) that require product stewardship of hazardous substances, including the cradle to grave management of these substances and the selection of substances based on the minimum effect on human and environmental health.</p> <p>All products must be registered for use in Russia.</p>	Sakhalin Energy's standards pertain to safe handling and use of hazardous materials, including transportations thereof as per the Chemical Management Standard.	HIA 14.1 RF Legislation Occupational health and Hygiene Standard	All project life cycle
Medical Emergency response planning and training	Medical emergency (interventions in relation to life-threatening medical conditions).	Company implements and regularly reviews medical emergency response manuals for each Project Asset.	Monitoring of the progress of this process.	HIA 14.1 RF Legislation Occupational health and Hygiene Standard	Annual basis all project life cycle.
Catastrophe scenarios and mitigation strategies	Earthquakes, explosions, community outbreaks of food poisoning, epidemics etc.	Sakhalin Energy shall develop comprehensive worst-case scenarios and mitigation strategies for incidents such as earthquakes, explosions, community outbreaks of food poisoning etc. through business continuity planning.	<p>Development of scenarios and mitigation strategies.</p> <p>Business continuity plan is regularly reviewed and updated.</p>	HIA 14.1 Business continuity plan	On a regular basis all project life cycle.





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Health Risk Assessments and Human Factor Reviews	Entire Project and at interfaces with communities.	Sakhalin Energy shall undertake Health Risk Assessments and Human Factor Reviews at several stages throughout the Project. Sakhalin Energy Occupational Health and Hygiene Standard covers these issues.	Monitoring development of HRAs and HFRs. Demonstration of any action required to address any material issues.	HIA 4.4.1 Occupational health and Hygiene Standard	All project life cycle.