

## SUMMARY OF RECOMMENDATIONS FROM THE 7<sup>TH</sup> MEETING OF THE WGAP

Recommendation Number	Cross-Reference	WGAP Recommendations & Requests	Responsible Party/Parties	Target Completion Date	Sakhalin Energy Response
<b>Item 4: Review information on relevant activities by Sakhalin Energy and other companies expected in 2010</b>					
WGAP-7/001	Item 4.2	The Panel <b>recommends</b> that one or more composite maps of likely industrial activity in 2010 on the Sakhalin shelf be prepared and presented at the next WGAP meeting.	IUCN	15 April 2010	
WGAP-7/002	Item 4.3	The Panel <b>recommends</b> that for any and all future requests for acoustic data ( <i>e.g.</i> for use in ongoing MVA efforts), Sakhalin Energy should provide, in tabular format, 1Hz, 1-minute averages for continuous noise and 1Hz, 1-second averages for impulsive noise in frequency bands specified in the request.	Sakhalin Energy	When requested by the Panel – with requests making specific reference to this recommendation	These requirements will be taken into account when the panel requests acoustic data. However, as previously noted the panel needs to be specific as to the date and time ranges and the points at which the data is required as the data is otherwise too large.
<b>Item 5: 4-D seismic survey</b>					
WGAP-7/003	Item 5.2.2	The Panel <b>recommends</b> that Sakhalin Energy submit the A-line truncation proposal by 28 February 2010.	Sakhalin Energy	28 February 2010	Sakhalin Energy will prepare and submit a proposal.
WGAP-7/004	Item 5.2.2	The Panel further <b>recommends</b> that this proposal include provision for buffer zones to ensure that the behavioural response threshold will not be exceeded at the PML during acquisition of the truncated portions of the A lines.	Sakhalin Energy	28 February 2010	Appropriate buffer zones will be included in any proposal.
WGAP-7/005	Item 5.2.2	The Panel <b>stresses</b> the importance of adequate visual observation platforms and <b>recommends</b> that Sakhalin Energy test the structural integrity of the platforms under realistic field conditions and that the tests be conducted with sufficient lead time to allow for any necessary corrective measures to be	Sakhalin Energy	1 April 2010	An additional platform will be built in Nogliki and tested.

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		implemented.			
WGWAP-7/006	Item 5.2.2	Details are given in Section 7.6 of the SSTF-4 report and the Panel <b>recommends</b> that the observation vessel follow the operational decision trees described there.	Sakhalin Energy	1 April 2010	The decision trees will be implemented as discussed.
WGWAP-7/007	Item 5.2.2	The Panel <b>recommends</b> that Sakhalin Energy submit for its review an operational contingency plan as soon as possible but not later than 28 February 2010.	Sakhalin Energy	28 February 2010	Sakhalin Energy will develop this plan but on reflection feel that the deadline should be changed to 31 March.
WGWAP-7/008	Item 5.2.2	The Panel <b>recommends</b> that if any of the measured data fall $\geq 3$ dB outside the range ( $\pm 1$ SD) predicted by the model, then the propagation models should be retuned and rerun until alterations give results that more closely match the data.	Sakhalin Energy	< 48 hours after the Source Verification	Sakhalin Energy agrees that this will be done if required. A library of pre-computed model results corresponding to different propagation conditions will be prepared prior to the survey so that the matching of estimates to measurements should only require a selection of model outputs. A full “re-tuning and re-running of the model” would only be required if the field results were outside of all estimated bounds.
WGWAP-7/009	Item 5.2.2	The procedure for the SSV will follow standard industry practice, and the Panel <b>recommends</b> that the data be provided as soon as possible but not more than 48 hours post experiment to Nowacek, Vedenev and Southall for their review and validation. The data should be in the form of plots of amplitude (RMS and SEL) vs. range. The review group must respond within 24 hours.	Sakhalin Energy	Date dictated by timing of 4-D seismic survey	Sakhalin Energy agrees to this.
WGWAP-7/010	Item 5.2.2	The Panel has consistently identified the need to assess both the effects of the seismic survey on the whales and the effectiveness of the monitoring and	Seismic Survey Task	1 August 2010	Sakhalin Energy agrees to the establishment of a Task Force that will provide advice to the Company

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		mitigation plan. To ensure that these assessments take place, the Panel <b>recommends</b> the formation of a working group to advise on such analyses following the Astokh 4-D seismic survey.	Force		on the types of analysis that can be carried out. However, the company and its scientists will remain responsible for doing all analyses, publishing these and presenting them to the Panel.
WGWAP-7/011	Item 5.2.2	Pursuant to such work, the Panel <b>recognises</b> the importance of post-seismic survey visual monitoring, regardless of whether whales were observed in the potential impact zone ( <i>i.e.</i> shoreward of the PML) during the survey. The Panel ... <b>recommends</b> that visual data continue to be collected from the behaviour and distribution stations for a period of at least 14 calendar days following completion of the seismic survey.	Sakhalin Energy	Dictated by concluding date of seismic survey	This recommendation is accepted in principle and the company will strive to achieve this. However, given the uncertainty in the seismic survey start date and survey duration, and the need to implement the joint monitoring program, a full 14 days may not be possible. Also, this applies only to field teams and not the vessel.
<b>Item 6: Report from Photo-ID Task Force and future work plan</b>					
WGWAP-7/012	Item 6.1.2	It was <b>agreed</b> that the photos of this whale obtained off Kamchatka in 2009 should be examined closely for evidence of poor body condition, excessive loads of ectoparasites, and scarring or wounds that might be related to the cause of death. Also, it was <b>agreed</b> that scars indicative of non-lethal interactions with vessels, fishing gear, or killer whales should be noted.	Sakhalin Energy	15 April 2010	All photographs will be reviewed and any findings discussed at WGWAP-8.
WGWAP-7/013	Item 6.1.2	It was further <b>recommended</b> that a tissue sample should be supplied to the lab used by the Russia-US team for genetic analysis, and that the results of a genetic analysis should be published jointly by the parties involved.	Sakhalin Energy	15 April 2010	Sakhalin Energy will follow-up on this and revert to the panel.
WGWAP-7/014	Item 6.2	The meeting thanked the two teams for their work, and <b>agreed</b> that the cross-matching should continue	Sakhalin Energy / Russia-US	Annually	Sakhalin Energy will participate in the cross matching of catalogues provided there remains value in this

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		annually as long as each team is collecting data.	team		exercise.
<b>Item 9: Summary of effort and results of Sakhalin Energy Marine Mammal Observer (MMO) and carcass detection programmes</b>					
WGWAP-7/015	Item 9.6	The Panel <b>recommends</b> that the first responders to the next gray whale stranding on Sakhalin should: 1) take more photographs of the external appearance of the whale, with an emphasis on views taken at right angles to the body, and including close-up photographs of any external injuries; 2) record all of the basic data called for in Appendix 6 of the Sakhalin Energy Marine Mammal Protection Plan; and 3) collect a skin sample for genetic identification of the individual whale. Also, first responders should remain in the area of the stranded whale to photograph additional body regions as the tide moves or repositions the carcass.	Sakhalin Energy	At each gray whale stranding	The recommendations 1, 2, and 3 are accepted and will be implemented. However, first responders will only remain on site if it is safe to do so.
WGWAP-7/016	Item 9.6	The Panel <b>recommends</b> that Sakhalin Energy prepare a proposal on these matters related to the need for future gray whale necropsies for consideration at WGWAP-8.	Sakhalin Energy	WGWAP-8	At WGWAP-7 Sakhalin Energy requested the panel help the Company by providing a short guide as to what an inexperienced person should do in the event of a whale stranding with regard to necropsy.
<b>Item 10: Report from Environmental Monitoring Task Force and future work plan</b>					
WGWAP-7/017	Item 10.3	In this spirit the Panel <b>requests</b> that ENL provide the following information: <ul style="list-style-type: none"> <li>A summary of monitoring activities related to both oil spill risk and ecosystem effects associated with the oil pipeline across the centre portion of Piltun Lagoon and</li> <li>Copies of reports documenting the link between benthic prey population dynamics and the 'anomalous' distribution of gray whales in the</li> </ul>	ENL	1 April 2010	

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		Piltun region during late spring, summer, and early autumn of 2008.			
WGWAP-7/018	Item 10.3	As a way of ensuring that the above request is conveyed in an official manner, the Panel <b>recommends</b> that IUCN use its good offices to communicate with ENL on this matter.	IUCN	15 February 2010	
<b>Item 11: Oil spill prevention, preparedness and response</b>					
WGWAP-7/019	Item 11	An important omission from the programme is that to date no drills have been carried out on shorelines near the gray whale feeding areas. The Panel <b>recommends</b> that some drills be conducted in these areas.	Sakhalin Energy	30 November 2010	An oil spill exercise in the Piltun lagoon area will be considered taking into account all safety issues and the need to limit any impact on the environment.
WGWAP-7/020	Item 11	The exercise and training matrix provided by Sakhalin Energy during the site visit was difficult to comprehend. Instead of such a matrix, the Panel <b>recommends</b> that in the future, Sakhalin Energy should provide for each Panel meeting a list of the exercises conducted and planned along with a brief summary report on each drill.	Sakhalin Energy	Annually	A simplified list of exercises and outcomes will be provided to the panel for 2010 exercises.