

SUMMARY OF RECOMMENDATIONS FROM THE 6TH MEETING OF THE GWAP

Recommendation number	Cross-Reference	GWAP Recommendations & Requests	Responsible Party/Parties	Target Completion Date	Sakhalin Energy Response
Item 2: 4-D SEISMIC SURVEY					
GWAP-6/001	Item 2.3	The Panel reiterates its previous recommendation regarding a moratorium on all activities by all companies that could adversely affect western gray whales.	Various	None specified	Sakhalin Energy has taken action on this by implementing GWAP-6/002 below. There is no further action for SEIC.
GWAP-6/002	Item 2.3	The Panel concludes that the moratorium should include Sakhalin Energy's seismic survey and recommends that the survey be postponed, pending the results of a full programme to monitor the distribution and abundance of whales in 2009.	Sakhalin Energy	Completed	At the GWAP-6 meeting Sakhalin Energy agreed to postpone the 4D seismic to 2010.
GWAP-6/003	Item 2.3	The Panel reiterates its request that all companies involved in the development of oil and gas resources on the northeastern Sakhalin Shelf join in this international effort and abide by the call for a moratorium on potentially harmful activities until the status of the whale population has been clarified. The Panel specifically urges the Russian Federation to assist in this process.	Various including Russian Ministry of Natural Resources (MNR) and Rosprirodnadzor	None specified	Sakhalin Energy has taken action on this by implementing GWAP-6/002 above. There is no further action for SEIC.
GWAP-6/004	Item 2.3	In the event that Sakhalin Energy decides to work towards conducting the seismic survey in 2010, the Panel recommends that the Seismic Survey Task Force be reconstituted and reactivated to complete the outstanding items of work listed in Annex 4.	GWAP and Sakhalin Energy	December 2009	Sakhalin Energy agrees to participate fully in the Task Force.
GWAP-6/005	Item 2.3	Recognizing that possibility [<i>i.e.</i> that the Panel may reconsider the idea of a seismic survey in 2010], the Panel recommends	GWAP and Sakhalin Energy	May 2010	Sakhalin Energy will actively prepare for

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		that sufficient advance planning be made in all aspects of monitoring and mitigation before, during and after the survey to ensure both minimisation of impact and collection of pertinent data.			monitoring and implementing mitigation measures in the event that the 4D seismic proceeds in 2010.
Item 3: PROGRESS ON PLANS FOR SATELLITE TAGGING					
WGWAP-6/006	Item 3	This exercise [of ranking whales as candidates for tagging] would have benefited from incorporation of the IBM photo-identification data, with an ultimate objective to plot precisely on a map where males have been located in the feeding areas. The Panel endorsed this line of thought and recommends that such a joint analysis be undertaken.	Sakhalin Energy, WGWAP	December 2009	Sakhalin Energy agrees that this would be a valuable exercise. The 2008 data should be considered at a Photo ID TF meeting in December 2009 and the plot updated with 2009 data in April 2010.
Item 5: RESULTS OF 2008 DISTRIBUTION, BEHAVIOUR, NOISE AND BENTHIC MONITORING					
WGWAP-6/007	Item 5.3	The Panel recommends that Sakhalin Energy re-institute the previously typical timing of the behaviour work so that it begins no later than mid-July in 2009 and beyond.	SEIC	Completed	The behaviour team will be mobilised at the beginning of July in 2009. Each year resource availability is reassessed.
WGWAP-6/008	Item 5.3	The Panel encourages Gailey and colleagues to integrate all available information, including anthropogenic noise, into their full analysis of the 2008 data.	SEIC	April 2010	The available behavioural data during pile driving activity is small and the sample sizes in relation to pile driving are small. SEIC will work with ENL on opportunities for including ENL specific activities into this analysis.

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WGWAP-6/009	Item 5.4	The Panel makes several recommendations related to the analysis, form of presentation and availability of Sakhalin Energy acoustic data. Firstly, spectrograms with clear and consistent depictions of received amplitude levels should be presented for all recorders, including real-time data from T-AUARs and the archival sonobuoys.	Sakhalin Energy	None specified	At WGWAP –7 SEIC would like to resolve with the panel members to define precisely what is required.
WGWAP-6/010	Item 5.4	Secondly, these plots should present the acoustic data in a format described in a previous MNR report, specifically figure 1.8 in ‘WGWAP_13E_MNR_Report_Acoustics_Volume_1_2005.pdf’. Most importantly, frequency analysis should be in 1 Hz steps from 1-1000 Hz along a linear rather than logarithmic axis, time integration windows should be ≤1 min, and the plots showing composite received levels should be larger and more discernable.	Sakhalin Energy	None specified	SEIC have reviewed the current and 2005 data and believe that the formats are the same. In connection with the scales, SEIC would like to resolve this further with the panel experts in December 2009.
WGWAP-6/011	Item 5.4	Thirdly, all additional information on days and locations of interest relative to known industrial events should be made available for analysis.	Sakhalin Energy	None specified	Sakhalin Energy will provide all available data on SEIC activities, and when authorised to do so SEIC will provide relevant information on non-SEIC events.
WGWAP-6/012	Item 5.4	Finally, all acoustic data should be archived in such a format that subsequent analyses using additional acoustic metrics (e.g. peak sound pressure, kurtosis) are possible.	Sakhalin Energy	Completed	POI stores all raw data that can be reprocessed if necessary. No raw data may be taken outside of Russia.
Item 6: ACTIVITIES OF OTHER COMPANIES IN 2008					
WGWAP-6/013	Item 6.4	The Panel recommends that Sakhalin Energy, IUCN and the Russian Ministry of Natural Resources (MNR) make a concerted effort to obtain all relevant information on activities	Sakhalin Energy, IUCN, MNR, Rosprirodnadzor	As soon as feasible	SEIC has shared all information that other companies have authorised

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		by other companies during the 2008 field season.			SEIC to do.
WGWAP-6/014	Item 6.4	The Panel acknowledges the efforts by IUCN to bring a representative from MNR to this meeting and recommends that the level of coordination and consultation between IUCN and MNR be expanded as feasible.	IUCN	As soon as feasible	
Item 7: PHOTO-ID					
WGWAP-6/015	Item 7.1	The Panel recommends that the cross-matching of the catalogues be updated annually.	Sakhalin Energy	June, annually	SEIC Agrees to this and recommends that 2008 catalogues be compared in December 2009.
WGWAP-6/016	Item 7.1	The Panel recommends that a population analysis based on the combined photo-ID data sets data should be conducted in time for WGWAP-7.	WGWAP Cooke	December 2009	
WGWAP-6/017	Item 7.1	The Panel recommends that the Task Force be continued, with the reduced list of remaining tasks identified in the pre-meeting workshop report, and that it should try to meet again in-person, preferably immediately prior to WGWAP-7.	Sakhalin Energy, WGWAP	December 2009	SEIC supports this.
WGWAP-6/018	Item 7.1	The Panel requests that the membership of the Task Force be specified soon after WGWAP-6.	Sakhalin Energy, WGWAP	June 2009	SEIC supports this.
WGWAP-6/019	Item 7.2	In view of the problems found by the Photo-ID Task Force with identifications of some mother-calf pairs, the Panel recommends that the Task Force examine photos of this calf carefully to verify its status.	Photo-ID TF	Prior to December 2009	SEIC agrees to this.
WGWAP-6/020	Item 7.2	The Panel recommends that data sets be assigned version numbers, and that a record of all retrospective changes to data be maintained.	Various	December 2009	SEIC will confirm in December how the Company will do this.

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Item 8: MMO PROGRAMME AND CARCASS DETECTION					
WGWAP-6/021	Item 8.1	The Panel requests that Sakhalin Energy prepare an analysis for WGWAP-7 that compares MMO observations across years, with emphasis on the crew change vessels	Sakhalin Energy	December 2009	SEIC will present this at WGWAP-7.
WGWAP-6/022	Item 8.4	The Panel stresses that given the time and other resources invested in documenting strandings such as this one, additional data and more photographs should be provided in reports such as WGWAP-6/21.	Sakhalin Energy	December 2009	SEIC will incorporate this into the MMPP.
Item 10: OIL SPILL PREVENTION, PREPAREDNESS AND RESPONSE					
WGWAP-6/023	Item 10	The OSRPs identify the need for monitoring but contain no details. They state that the details appear in two other Sakhalin Energy publications. The Panel requests that copies of these other documents be made available for review by the Environmental Monitoring Task Force.	Sakhalin Energy	1 July 2009	SEIC agrees with this.
WGWAP-6/024	Item 10	Given the importance of aromatic compounds in oil to the potential environmental impacts of a spill, the Panel recommends that Sakhalin Energy conduct further, more detailed analyses of the crude oil.	Sakhalin Energy	December 2009	SEIC agrees with this.
Item 12: SAKHALIN ENERGY ACTIVITIES IN 2009					
WGWAP-6/025	Item 12.1	The Panel requests that Sakhalin Energy report back at WGWAP-7 regarding the crew change vessel replacement process and any related efforts to improve collision avoidance procedures.	Sakhalin Energy	December 2009	SEIC will report back in December.
WGWAP-6/026	Item 12.2	In view of those concerns [need for better data on early-season occurrence of whales and data on distribution and behaviour in 2009 for comparison with 2008], the Panel recommends that a full complement of research and monitoring work be carried out	Sakhalin Energy	Completed	The annual program has been implemented as in the past and SEIC will coordinate some additional

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		in 2009, to include all elements of the programme as in previous years.			surveys.
Item 14: EXPECTED ACTIVITIES OF OTHER COMPANIES IN 2009					
WGWAP-6/027	Item 14.4	The Panel recommends that Sakhalin Energy, IUCN, the Russian Ministry of Natural Resources, Rosprirodnazor and the Russian Group for Strategic Planning on Western Gray Whale Research increase their efforts to obtain all relevant information on activities by other companies planned for the 2010 field season and that this information be made available for panel consideration at WGWAP-7 and WGWAP-8.	Various	December 2009	When authorised to do so by other companies, SEIC will provide all available information for the 2010 field season for consideration at future WGWAP meetings.
WGWAP-6/028	Item 14.4	The Panel also recommends that IUCN collate and prepare graphic presentations of such information (e.g. one or more maps of areas of planned seismic surveys with indications of probable timing) as a routine contribution for each future panel meeting.	IUCN	WGWAP meetings	