



## Meeting Notes

### Noise Liaison Group Meeting No. 6

3 November 2011, 10:00 to 13:00

Venue: Arrol House, Rosyth



#### Attendees:

David Climie	FRC Employer's Delivery Team (EDT) (Chair)
Steven Brown	FRC Employer's Delivery Team (EDT)
Andrew Mackay	FRC Employer's Delivery Team (EDT)
Richard Greer	FRC Employer's Delivery Team (EDT)
Martin Butterfield	FRC Employer's Delivery Team (EDT)
Steve Williamson	City of Edinburgh Council (CEC)
Dermot Connolly	City of Edinburgh Council (CEC)
David Redden	Fife Council (FC)
Tracy Wyllie	Fife Council (FC)
Brian Carmichael	West Lothian Council (WLC)
Mike Bland	Marine Scotland (MS)
Sean O'Neill	John Graham (Dromore) Ltd (JGD)
Mark MacLagan	John Graham (Dromore) Ltd (JGD)
Roland Tarrant	SRB Civil Engineering Ltd (SRB)
Micheal O'Connell	SRB Civil Engineering Ltd (SRB)
Jim Watson	Forth Crossing Bridge Constructors (FCBC)
Meinolf Droste	Forth Crossing Bridge Constructors (FCBC)
Ruben Casanova	Forth Crossing Bridge Constructors (FCBC)
Neil Abraham	Forth Crossing Bridge Constructors (FCBC)
Paul Hillman	Forth Crossing Bridge Constructors (FCBC)
Ray Browne	Forth Crossing Bridge Constructors (FCBC)

#### Apologies for Absence:

David Brewster	West Lothian Council (WLC)
Niall Corbet	Scottish Natural Heritage (SNH)
Colin Megginson	Marine Scotland (MS)

Item	Subject	Description	Action
1	Introductions and Apologies	EDT welcomed all parties to the meeting. Apologies were received from those parties listed above.	
2	Safety Procedures	EDT advised regarding safety and evacuation procedures.	
3	Minutes and Actions from Previous Meeting	The minutes of Meeting No. 5 held on 6 October 2011 were agreed. Actions from the previous meeting are as noted in items 4(a) to 4(c) below.	
4(a)	Fife ITS	<u>Actions from Previous Meeting No. 5</u>  Item 4(a) – EDT confirmed having issued a draft template chart for presentation of noise monitoring results. EDT explained the format of the chart. In particular, the presentation of maximum noise level ( $L_{Amax,F}$ ) data was discussed and the	

		<p>EDT clarified that in line with the provisions set out in the Code of Construction Practice which covered maximum noise levels in some detail, it was considered appropriate to set out the maximum noise levels on each day in addition to the daily average (or <math>L_{Aeq}</math>) noise level. The data to be shown was agreed and EDT was asked to refine the visual appearance of the chart.</p> <p>EDT confirmed having reviewed and commented on the baseline monitoring data provided by JG.</p> <p>EDT confirmed that PCNV0005 Medium Risk Gantry Sites (02f and 03f) had been approved.</p> <p>EDT confirmed that PCNV0012 Northbound H/S Planing and Surfacing had been reviewed and comments provided to JG. The PCNV was currently with the NLG for review.</p> <p>EDT confirmed that PCNV0006 Gantry Site G01f had been reviewed and comments provided to JG. The PCNV was currently with the NLG for review. EDT noted that following review of JGs original proposals for night time working, JG are now proposing that the works are carried out during normal working hours. This methodology has been discussed and agreed at the recent Traffic Management Working Group meeting.</p> <p>JG confirmed having issued PCNV0007 Night time piling for Gantry 10f to the Employer and that comments had been received. EDT advised that the PCNV was currently with the NLG for review.</p> <p><u>Plans for Control of Noise and Vibration (PCNV)</u></p> <p>JG provided a forward plan and overview of PCNV submissions. In addition to the status recorded in the review of the actions from Meeting No. 5, the following was noted:</p> <p>PCNV0015 Cross Carriageway Ducts – this involves night time working. The NLG noted that in general the night time construction levels were less than the baseline noise levels and that the works were generally a significant distance from properties. EDT advised that they would seek to provide comments on the PCNV by 04/11/11.</p> <p>Fife Council advised that they would seek to provide comments on PCNVs 0006, 0007 and 0012 during w/c 07/11/11.</p> <p><u>Monitoring</u></p> <p>JG confirmed that the updated baseline monitoring report taking account of the Employer's comments would be issued w/c 07/11/11.</p> <p>JG confirmed that a sample of data covering one week would be provided using the template chart provided by the Employer w/c 07/11/11.</p> <p><u>Community Engagement</u></p> <p>JG confirmed that no complaints had been received from the public regarding construction noise.</p>	<p>EDT</p> <p>NLG</p> <p>NLG</p> <p>NLG</p> <p>EDT</p> <p>FC</p> <p>JG</p> <p>JG</p>
4(b)	M9 Junction 1a	<u>Actions from Previous Meeting No. 5</u>	

		<p>Item 4(b) – EDT advised SRB regarding the earlier discussion concerning the draft template chart for presentation of noise monitoring results. SRB confirmed that they would provide a sample of data covering one week using the template chart provided by the Employer by w/e 11/11/11. SRB also advised that they would provide comments on the template chart by w/e 11/11/11.</p> <p>EDT confirmed having reviewed and commented on the baseline monitoring data provided by SRB. SRB confirmed that they would provide an updated baseline monitoring report taking account of the Employer’s comments w/e 11/11/11.</p> <p>EDT confirmed that PCNV0021 covering earthworks to the south of the M9 had been approved.</p> <p><u>Plans for Control of Noise and Vibration</u></p> <p>It was noted that there are currently 6 PCNVs at the review stage. The status of these is as follows:</p> <p>PCNV0020 M9 Junction 1a overbridge – with Contractor for updating  PCNV0024 and 0025 Gantries – with Contractor for updating  PCNV0023 Earthworks – with Contractor for updating  PCNV0016 Newmains Structure – with Employer  PCNV0026 Gantries (M9 Spur excl Gantry G11J) – with Employer</p> <p>SRB advised that a further 8 PCNVs were envisaged covering works in December 2011 and January 2012.</p> <p>SRB advised that were maintaining an up to date plant data lists to support PCNV preparation. SRB indicated that their measurements were demonstrating that plant is generally quieter than the corresponding plant included in BS5228. In particular SRB indicated that super-silenced pumps being used at the culverts and burn works were extremely quiet.</p> <p>SRB confirmed that as set out in PCNVs they were still employing non-tonal broad band reversing alarms and that they were continuing to monitor these from a health and safety perspective. SRB advised that they would review whether traffic management plant had non-tonal alarms.</p> <p><u>Monitoring</u></p> <p>Refer to actions from previous meeting above.</p> <p><u>Forward Programme</u></p> <p>SRB advised of the following forward programme for November.</p> <ul style="list-style-type: none"> <li>• Continue site clearance in all areas</li> <li>• Continue earthworks on the southern side of the M9</li> <li>• Commence trial piling for gantries and bridges</li> <li>• Continue excavation and construction of the temporary Swine Burn diversion works</li> <li>• Commence Swine Burn, Niddry Burn and Niddry Tributary Culvert extension (dependent on stat. approvals)</li> <li>• Commence laydown of traffic management on the M9 Spur and the M9 (early November)</li> <li>• Earthworks and temporary ramps to M9 Spur</li> <li>• Trial holing on side roads for services</li> </ul>	<p>SRB</p> <p>SRB</p> <p>SRB</p>
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4(c)	Principal Contract	<p><u>Presentation regarding approach viaduct pier foundations</u></p> <p>FCBC gave a presentation outlining the construction methods for the approach viaduct pier foundations. Construction of the foundations is due to commence in February 2012. FCBC advised that PCNVs for the foundation works are expected to be issued later in November/early December.</p> <p><u>Actions from Previous Meeting No. 5</u></p> <p>Item 4(c) – EDT advised FCBC regarding the earlier discussion concerning the draft template chart for presentation of noise monitoring results. FCBC provided comments regarding the format of the chart for consideration by the Employer in updating the chart template. FCBC confirmed that they would provide a sample of data covering one week using the template chart provided by the Employer by w/e 04/11/11.</p> <p>The schedule of PCNVs was discussed later in the meeting – see Plans for Control of Noise and Vibration items below.</p> <p>EDT noted that PCNV0001 Land Ground Investigation had been finalised by FCBC and approved.</p> <p>EDT noted that PCNV0002 Marine Ground Investigation had been finalised by FCBC and approved.</p> <p>FCBC advised that wider area based PCNVs were in preparation.</p> <p>EDT confirmed having issued a copy of the updated PCNV0018 provided by FCBC concerning Beamer Rock drilling works. This was discussed – see Plans for Control of Noise and Vibration items below.</p> <p>FCBC confirmed that fixed monitors to replace short term monitoring were still being installed.</p> <p>FCBC confirmed that they had discussed forthcoming works at the community forums held on 01/11/11 and 02/11/11.</p> <p><u>Plans for control of noise and vibration</u></p> <p>PCNV0018 Beamer Rock Drilling – FCBC gave an overview of the main features of the method of working set out in the revised PCNV as follows:</p> <ul style="list-style-type: none"> <li>• Reduce number of rigs from four to one for safety reasons.</li> <li>• Working will be undertaken at low tides and as a result works will</li> </ul>	<p>FCBC</p> <p>FCBC</p> <p>FCBC</p> <p>FCBC</p> <p>FCBC</p>

		<p>occur at different times during the day, evening or night, depending on the low tide times.</p> <ul style="list-style-type: none"> <li>• Works will consist of 10-15 minute drilling periods with 20-30 minute breaks from drilling while moving. Each working shift will be around 4.5 hours long.</li> </ul> <p>The need for night time working was discussed. FCBC explained that the works were marine works covered by paragraph 3.4.8 of the Code of Construction Practice which permits night time working for certain activities. FCBC also explained that the overall programme for the drilling works would double from approximately 10 weeks to 20 weeks if the works were restricted to normal working hours only. FCBC also explained that the works on the central tower formed the critical path for the overall project and in terms of completing the project to programme it was essential that working at each low tide period occurred.</p> <p>The extent of night time working was discussed. EDT provided a chart that it had used to assist its review of the draft PCNV which showed indicative working times based on low tide times and the 4.5 hour working periods set out by FCBC. The NLG reviewed the chart which showed that the low tide times and working periods advanced around 45 minutes each day and that the working periods operated on an approximate two week cycle. The chart indicated that due to the length of the working periods and the changes in the working period based on the tidal pattern, respite periods would be provided during some nights within the work period.</p> <p>FCBC noted that the average hourly night time noise levels were below the assessment category levels for the night time periods. The NLG enquired regarding the likely increase in noise levels over the short term period as the average hourly night time noise levels were influenced by the breaks between drilling times. It was noted that that the increase would be approximately 5dB.</p> <p>It was agreed that the PCNV needed to provide more information regarding night time working periods including an explanation of respite that would be provided; information regarding the likely increase in noise levels over the short term period as the average hourly night time noise levels were influenced by the breaks between drilling times; and further information regarding the pre-construction ambient noise levels.</p> <p>The NLG asked that regular information regarding when night time working would be undertaken should be provided during the construction period as part of notifications to communities.</p> <p>PCNV0019 Beamer Rock Blasting and Excavation (Daytime activities) – No significant issues regarding airborne noise were noted in relation to the draft PCNV submitted for blasting and excavation works on Beamer Rock. It was noted by the NLG that the works are to be undertaken during normal working hours.</p> <p>EDT raised the issue of underwater noise and whether the works were compliant with the Appropriate Assessments undertaken for the project. FCBC to review.</p> <p><u>Monitoring</u></p> <p>Refer to actions from previous meeting above.</p> <p>FCBC advised that they had submitted a query to the Employer regarding weather stations. EDT to review and respond.</p> <p><u>Update on community engagement activities</u></p>	<p>FCBC</p> <p>FCBC</p> <p>FCBC</p> <p>EDT</p>
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