



## Meeting Notes



### Noise Liaison Group Meeting No. 17

1 November 2012, 10:00 to 13:00

Venue: FRC Project Office, 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)
Andy Officer	FRC Employer's Delivery Team (EDT)
Rebecca Long	FRC Employer's Delivery Team (EDT)
Dermot Connolly	City of Edinburgh Council (CEC)
David Redden	Fife Council (FC)
Tracy Wyllie	Fife Council (FC)
Brian Carmichael	West Lothian Council (WLC)
Thomas Nilsson	Forth Crossing Bridge Constructors (FCBC)
Colin Goodsir	Forth Crossing Bridge Constructors (FCBC)
Neil Abraham	Forth Crossing Bridge Constructors (FCBC)
Martin Wilson	Forth Crossing Bridge Constructors (FCBC)
Meinolf Droste	Forth Crossing Bridge Constructors (FCBC)
Ruben Casanova	Forth Crossing Bridge Constructors (FCBC)
Micheal O'Connell	SRB Civil Engineering Ltd (SRB)

#### Apologies for Absence:

Martin Butterfield	FRC Employer's Delivery Team (EDT)
David Condie	FRC Employer's Delivery Team (EDT)
Steven Williamson	City of Edinburgh Council (CEC)
David Brewster	West Lothian Council (WLC)
Niall Corbet	Scottish Natural Heritage (SNH)
Carolyn Clark	Scottish Natural Heritage (SNH)
Mike Bland	Marine Scotland (MS)
Colin Megginson	Marine Scotland (MS)
Roland Tarrant	SRB Civil Engineering Ltd (SRB)
Rory McFadden	John Graham (Dromore) Ltd (JG)

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. 16 held on 4 October 2012 were agreed. Actions from the previous meeting are as noted in items 4(a) to 4(c) below.	
4(a)	M9 Junction 1a	<u>Actions from Previous Meeting No. 16</u>	

	(i)	In response to EDT's requested at the previous NLG (4(b) viii) regarding an update on whether plant are fitted with broadband reversing alarms SRB confirmed that all Tarmac plant is fitted with non – tonal broadband alarms and the majority of sub-contractors are also non-tonal.	
	(ii)	It was noted that the PCNV for pavement works had been finalised and approved.	
	(iii)	SRB confirmed having kept CEC informed regarding the pavement works programme. SRB also confirmed having issued a further letter to residents regarding the works.	
	(iv)	SRB confirmed having issued noise monitoring information relating to the pavement works. EDT confirmed that this had been reviewed and comments provided.	
	(v)	In reply to CEC's query at last month's meeting 'where the excavated material from the planing operations would be transported to off-site'. SRB advised that the vehicles transporting the material would be travelling along the motorway.	
	(vi)	EDT confirmed that they had advised SRB that they have no comments on their cumulative noise assessment submitted last month.	
	(vii)	SRB confirmed they would copy CEC into correspondence with residents in relation to notifying them of upcoming works and when planned works will take place.	SRB
		<u>Plans for Control of Noise and Vibration</u>	
	(viii)	No further PCNVs are envisaged.	
		<u>Monitoring</u>	
	(ix)	SRB advised that the September Noise Monitoring report would be submitted in the next 5-10 days.	SRB
		<u>Community Engagement</u>	
	(x)	SRB confirmed there have been no noise complaints relating to the weekend pavement works over the last month.	
		<u>Forward Programme</u>	
	(xi)	SRB advised that their works are currently 80-90% complete.	
	(xii)	<p>SRB advised that M9 Spur pavement works were likely to be carried out on 02/11/12. All remaining pavement works would be carried out at weekends. SRB advised the NLG that pavement works on the southbound carriageway of the M9 Spur will be periodic working and traffic management for these works will be carried out at night. Works will initially take place in the central reserve and then move the southbound carriageway only on the following weekend. Pavement works on Southbound spur adjacent to Buie Rigg will take place over the next week and a half.</p> <p>Overall, SRB indicated that they had two more weekends of working on the M9 and 1 further weekend working to finish a pavement repair to a section behind the site compound</p> <p>Drainage works crossing at Newmains Road – traffic lights for 3 weeks.</p> <p>EDT noted that in relation to the ongoing works, continued vigilance, including toolbox talks before the start of a new shift to remind workers</p>	

		<p>of the importance of being noise aware especially during night-time works, would be necessary to manage construction noise.</p> <p>CEC asked which end the M9 merge works would start as planning out would be involved in the works. SRB confirmed that they would be starting works at the Buie Rigg end ensuring that the potentially loudest element of works is complete earlier in the night to ensure as little as possible disturbance to residents.</p> <p>SRB to notify CEC when the southbound merge works are to be carried out. SRB indicated that they would most likely be carried out in 2 weeks' time.</p>	SRB
4(b)	Fife ITS	<u>Actions from Previous Meeting No. 16</u>	
	(i)	It was noted that Fife ITS works were largely complete and as such no further attendance from JG was required at the NLG meetings. EDT provided the Fife ITS update to the NLG.	
	(ii)	One gantry remains to be erected and this is planned for 1 November 2012.	
	(iii)	<p>EDT provided feedback from JG to the NLG regarding their experiences with the NLG. EDT advised that JG thanked the NLG for their time and input during the contract and that the commented that it had not been easy but that JG considered that the management of noise and vibration had been a success on the contract.</p> <p>The NLG agreed that JG had worked well with the process and the NLG to manage noise and vibration and that JG had responded well to the challengers of working near to residential areas alongside the M90.</p>	
4(c)	Principal Contract	<u>Actions form Previous Meeting No.16</u>	
	(i)	FCBC advised that the revision to PCNV0021 had not been submitted as planned but would be submitted within the next 1 – 2 weeks.	FCBC
	(ii)	FCBC confirmed that the vibration report covering the period from Nov 2011 – Jan 2012 was submitted to the EDT on 25 Oct. 2012. EDT advised this was being reviewed.	EDT
	(iii)	FCBC advised that the revised underwater noise report was being finalised and would be submitted by the end of the week.	FCBC
	(iv)	FCBC advised that the PCNV for works at the Port of Rosyth would be submitted in December.	FCBC
	(v)	It was noted that the planned date for visiting the works at Pier S6 was 13 November 2012.	ALL
	(vi)	It was noted that the draft modification to PCNV0011 covering works at Pier S6 has been received and comments provided. FCBC to finalise PCNV.	FCBC
	(vii)	FCBC advised that the programmed date for commencing sheet piling works at Pier S6 was 3-4 weeks after commencement of the bund. PCNV to be submitted.	FCBC
	(viii)	FCBC provided an update regarding planned monitoring at Linn Mill, confirming that attended monitoring would be undertaken and would reviewed to determine whether any permanent monitoring was necessary.	FCBC
	(ix)	FCBC advised that they had submitted all vibration reports covering the periods up to July 2012. EDT noted that the reports covering the last 6 months had just been received and would be reviewed.	EDT
		<u>Plans for Control of Noise and Vibration</u>	
	(x)	FCBC stated that the following PCNV's have been submitted in the last month:	

		<ul style="list-style-type: none"> <li>• 00015 – Blasting at St Margaret’s Hope – normal working</li> <li>• 00011 - Pier S6 Earthbund – Tidal working</li> <li>• 00020 Rev 08 – Marine works – 24 hr working</li> <li>• 00027 – Concrete Batching plant</li> </ul>	
	(xi)	<p>The Following PCNV’s are to be submitted to be submitted for review in the next month:</p> <ul style="list-style-type: none"> <li>• 00021 – Revised Programme/South Abutment</li> <li>• 00022 – S6 Piling</li> <li>• 00008 – Queensferry Junction/Specialist Utilities Works</li> <li>• 00027 (Mod 01) – Piling in Building 973 of Marine Yard</li> </ul>	
	(xii)	<p>FCBC reviewed NLG comments on first submission of PCNV 00011.</p> <p>Night working – FCBC reviewed the tidal programme and are now only proposing to undertake works during daytime and evening which avoids the need for night traffic at Echline field. This would not significantly prolong the works programme. EDT stressed the need to undertake community liaison.</p> <p>Following EDT comments, the contractor investigated the possibility of using ‘telltales’ such as glass slides to determine if any settlement or other structural distress occurs to the bunker during these works. The contractor confirmed they were reviewing whether it would be possible to place ‘telltales’ within the ventilation chimneys.</p> <p>The contractor confirmed that the method of works would use an incremental reduction in distance when using the vibrating roller close to the bunker with review of ‘telltales’ as part of the strategy to manage potential vibration impacts.</p> <p>The EDT also inquired about the use of vibration loggers to monitor the works on the site. The contractor proposed the use of 3 Vibration Loggers. EDT suggested that 1 logger be placed at the front of the bunker one on the roof of Bunker.</p> <p>FCBC was asked what measures would they implement if a PPV of 12.5mm/s was exceeded. The contractor confirmed that they would use data collected to confirm there is not a risk of causing damage to the building and would restrict works to deadweight rolling if necessary.</p> <p>The NLG confirmed they were content with PCNV11 Mod 03 and that subject to its submission and approval, the bund works at S6 could commence.</p>	FCBC
		<u>Enquiries/Complaints</u>	
	(xiii)	<p>The contractor had one enquiry in the last month regarding whether any measures would be put in place now or in future to counter increase in traffic noise since the removal of trees on the M90. The contractor’s responded advising that it was planned to plant trees and hedgerow in this vicinity after completion of the works. The contractor also advised that the amount of trees which were removed was highly unlikely to have effect on noise.</p>	
	(xiv)	<p>The contractor confirmed that the owner of a property on the north side of the Forth had rejected the offer of Noise Insulations but accepted the option of selecting their own supplier.</p> <p>The contractor advised that another property owner had formally accepted the offer of Noise insulation.</p>	

		A further update is to be provided at the next NLG meeting.	FCBC
		<u>Monitoring</u>	
	(xv)	<p>The contractor advised the NLG that there were fewer exceedences this month than in previous months.</p> <p>There were 3 daytime exceedences at Butlaw fisheries of the standard threshold for maximum noise levels due to piling at trial pit but that a higher threshold relating to piling was permitted within the CoCP and therefore the works were compliant.</p> <p>5 night time exceedences were recorded at Tigh-Na-Grain. This was attributed to works at the north tower caisson. FCBC noted that investigations were being carried out into the possibility of an improved directive grating being installed over crane engine grill to further reduce noise.</p> <p>3 day time exceedences were reported at Clufflat Brae attributed to short term essential SUDS pond works close to noise monitoring meter.</p> <p>4 exceedences were reported at Linn Mill which was attributed to a vehicle horn and movement of plant close to the noise monitoring meter.</p> <p>It was noted that no complaints were received relating to these exceedences.</p>	FCBC
	(xvi)	The contractor advised that the current works plan for the tower foundation works was a further 2-3 weeks on the north tower and then the works would then move back to the south tower for 2 to 3 weeks then return back the north tower for a further 2 to 3 weeks.	
	(xvii)	<p>Attended noise monitoring of the Caisson Excavation works was conducted at the North Shore.</p> <p>Northshore location (225m from the North Tower and 30m from Tigh-Na-Gian).</p> <p>The recorded noise level at source was 59.7db.</p> <p>The recorded noise level at Tigh-Na-Grian was projected as 58.6db.</p> <p>The Residual noise level from traffic noise was recorded as 57.3db.</p> <p>Corrected noise level at Tigh-Na-Grian was 52.7db.</p>	
	(xviii)	The relocation of Vibrock equipment to more suitable locations is ongoing. The contractor confirmed that the new locations appear to be more appropriate. The EDT stated that the NVMP would need to be updated in advance of the next community forum meetings which will be held in the 3 <sup>rd</sup> week of November.	FCBC
		<u>Forward Programme</u>	
	(xix)	<p>FCBC provided a presentation to the NLG regarding the works that would be carried out on the towers in 2013.</p> <p>The tower construction works will take approximately 18 to 21 months. The main equipment that will be involved in these works will be:</p> <ul style="list-style-type: none"> <li>• Side installation barge</li> <li>• Tower crane at each tower</li> <li>• Hoist for lifting personnel</li> <li>• Climbing Formwork</li> </ul> <p>FCBC advised that key activities that could generate noise would be carried out during daytime working.</p> <p>FCBC advised that they would seek approval for night working</p>	

		<p>covering some lifting and manual fixing of rebar. This is part of their strategy to ensure that works could progress in a sensible sequence with noisier activities able to be restricted to the daytime.</p> <p>The climbing formwork where the majority of activity will take place will be enclosed which will provide screening which will reduce noise levels.</p> <p>FCBC advised that initial noise assessments of the works indicated the highest level of noise being around 45db on the North side. FCBC confirmed that the protection that would be provided by the enclosed climbing formwork was not included in this assessment.</p> <p>The construction of the central tower is programmed first which will allow time for monitoring noise before construction begins on north and south tower.</p> <p>The NLG welcomed the advance information regarding works to be carried out the following year and advised that in principle the proposals seemed to be acceptable. The NLG would defer further comment until more detailed information was available.</p>	
5	Next Meeting	The next meeting (No. 18) will be held on 6th December 2012, 10am, Ferrytoll site office.	
6	Any Other Business	FCBC will be shutting down over the Christmas period. FCBC to confirm plan at next NLG meeting.	