



Preliminary Sound Management Plan

Sydney Resolutions Concert Series 2011
31st December 2011

Prepared for
Sydney Resolutions Pty Ltd

by
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A. Introduction

This Sound Management Plan is based on the acoustic impact prepared by The Acoustic Group on the 11th July 2011. As recommended in this document, Sydney Resolutions Pty Ltd will adapt the DECC SOPA Act for the event.

In order to proactively prevent perimeter sound pressure levels exceeding the levels set out in the SOPA Act and at the locations nominated by The Acoustic Group, Sydney Resolutions Pty Ltd will engage the acoustic consultant The PA People. The P.A. People will provide SPLnet - a networked, real time sound pressure level monitoring system.

Sound pressure levels at Four fixed SPL meters located at key perimeter locations and at the main stages will centrally monitor sound pressure levels in real time. During the event the SPLnet system will be supplemented by three additional mobile sound pressure level monitoring personnel. These mobile monitors will be used to patrol the perimeter, verify the SPLnet measurements and to conduct location specific measurements in response to any received complaints.

This Sound Management Plan comprises:

- ***An introduction***
- ***Event Details***
- ***Environmental Noise management approach***
- ***Monitoring Details***
- ***Operational Event Plan***
- ***Appendices***

Please do not hesitate to contact us should you require clarification on any part of this report.

B. Event Details

B.1 Dates, Times and Location

Sydney Resolutions Pty propose to hold this event on the 31st December 2011 - 1st January 2012. The location of the event site is Glebe Island Port, adjacent to the Anzac Bridge and White Bay.

Sydney Resolutions Pty expects an approximate attendance of 40,000 people for the event.

Sound tests will be carried out between 14:00 and 17:00 on the 30th December 2011.

Our proposal is for the event to start at approx. 14:00 with the main act to conclude at approx. 23:59 on the 31st December 2011. On the 1st January 2012 at approx. 00:30 secondary act will start. This act will conclude at 01:30, with ambient music to follow until 03:00.

B.2 Schedule of Acts

A complete schedule of acts is yet to be finalised. This schedule will be submitted upon confirmation.

C. Environmental Noise Management Approach

C.1 Mitigation before the Event

C.1.1 Pre-event planning:

As part of pre-event planning, the following will be carried out for the event:

- *Early provision of site plans to the acoustic consultant for feedback on noise impact and implementation of recommendations received by the consultants. This includes study of the site layout, and positioning and direction of stages. Details include:*
 - *Facing the stage away from direct lines to residential areas.*
 - *Facing some sound impact lines to unoccupied structures (Lot 1 and 2 buildings on Sommerville Rd) to deflect impact on residents*
- *Sound briefings prior to the event with the acoustic consultant and the Sound System Contractor establishing clear understanding of how requests for noise reduction will be communicated and actioned, and a clear action plan should the stage fail to comply with instructions received for noise reduction.*
- *Scheduling of all sound checks and rehearsals the day before the event covering a three-hour period in the afternoon, when residents are more likely to be away from home. This removed exposure to residents and decreases the continuous exposure time to noise on event day.*
- *Scheduling of event main act to finish at 23:59 on the 31st December 2011, followed a second act starting at 00:30 and concluding at 01:30 followed by low-level ambient music until 03:00 on the 1st January 2012.*

C.3 Mitigation during the Event

The acoustical consultant, The P.A. People will use their SPLnet system. SPLnet is used to continuously monitor and log environmental conditions at the event site. The SPLnet system can also continuously record audio from each of the four perimeter SPLnet monitors for the duration of the event.

The engineer at the nominated sound control location will be able to use this data, in combination with the subjective analysis of the three mobile monitors, to identify any sound pressure level exceedences at the event perimeter. Any perimeter exceedences detected by the SPLnet or mobile monitors caused by external factors can then be identified. Any exceedences caused by Sydney Resolution's sound reinforcement systems can also identified and immediately actioned by sound control.

Dynamic SPL thresholds and exceedance indicators will be set for the FOH position by Sound Control during the sound checks on the 30th December 2011.

These thresholds will be based on the stage's effect on perimeter SPL conditions. Therefore, the sound engineer will be able to proactively adjust the sound pressure level produced by the stage based on it's effect on perimeter conditions at any given time.

In general, this allows for Sydney Resolution to easily adhere to the suggested levels outlined in the SOPA Act.

C.1.2 Details of Measurement System

To monitor perimeter sound pressure levels at Sound Resolution, The PA People will provide a networked, real time sound pressure level monitoring system based on SPLnet.

Key features of this system include:

- The centralised logging of SPL data including information as to when stage is notified of exceedences or impending exceedences, to ensure immediate action from the stage otherwise penalties are implemented from the sound bond.***
- When notified of a complaint, sound control can immediately identify readings at the perimeter so there is an immediate measurement in the vicinity at the time of the complaint before the roving sound monitor arrives at the residence. This allows more accurate and immediate response to the complainant, and if there is an exceedence this can be immediately rectified centrally while the mobile sound monitor is being dispatched to the residence.***
- The communication lines between identifying an exceedence and notifying the offending stage is greatly reduced.***
- All logging meters work in all-weather conditions. Most logging meters currently employed for event monitoring in Australia are affected by wet weather or cannot be used at all.***

As noted previously, the SPLnet system is focused on proactively preventing perimeter sound pressure level exceedence.

Sound pressure levels for Sydney Resolutions will be centrally monitored and recorded from fixed SPL meters located at the stage and at four key perimeter positions in real time. During the event the SPLNet system will be supplemented by three additional mobile sound pressure level monitors. These mobile monitors will be used to patrol the perimeter and verify the SPLNet measurements and to conduct location specific measurements in response to any received complaints.

The SPLnet system will be used to continuously monitor and log environmental conditions at the event site. The SPLnet system will

continuously record audio from each of the four perimeter SPLNet monitors for the duration of the event.

The engineer at sound control is able to use this data, in combination with the subjective analysis of the three mobile monitors, to identify the source of any sound pressure level exceedences at the event perimeter. Any perimeter exceedences detected by the SPLnet system or the mobile monitors caused by external factors (i.e. not due to sound emanating from the event) will be identified. Similarly exceedences caused by the sound reinforcement system will be identified and immediately actioned by sound control.

$L_{10,15 \text{ Mins}}$ dB(A) and dB(C) SPL measurements for all five SPLNet meters will besimultaneously monitored by the acoustic engineer at Sound Control.

SPL measurements will also be monitored at FOH mixing position by the sound engineer. Dynamic SPL thresholds and exceedence indicators for FOH will be set by Sound Control. These thresholds will be based on the stage's effect on perimeter SPL conditions.

Therefore, the sound engineer will be able to proactively adjust the sound pressure level produced by the stage based on it's effect on perimeter conditions at any given time.

C.1 Site Plan and Measurement Locations

C.1.1 Perimeter Monitoring

Four fixed sound pressure level monitoring perimeter locations are suggested for this event.

These Four fixed locations will be in the vicinity of:

- Cnr Robert and Betty Streets Balmain***
- 15 Donnelly St***
- 24-32 Refinery Drive***
- 16 Leichhardt St***

C.1.2 Mobile Monitors

Three mobile monitoring personnel will also patrol the perimeter and corroborate the SPLnet measurements and to conduct location specific measurements in response to any received complaints.

C.1.3 Site Plan

Below is a site plan showing relative positions of the four permitter monitoring locations used for the event.



C.2 Complaints Management

Sydney Resolution Pty Ltd has adopted a comprehensive sound management program that is based on the program used at Centennial Parkland. This plan includes a detailed complaints management procedure.

C.3 Management Process for Exceedances

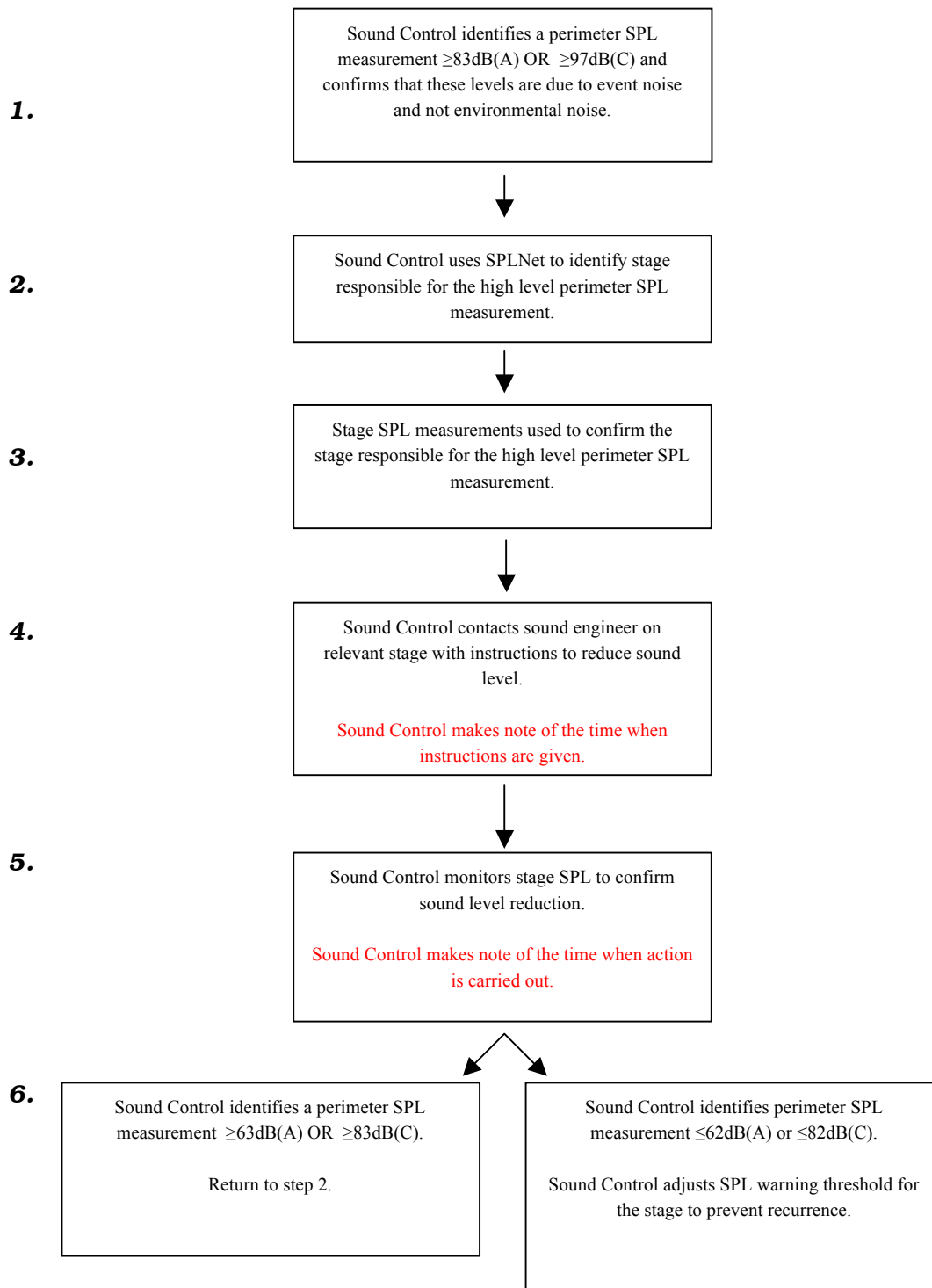
With the SPLnet system SPL levels at all perimeter points are centrally monitored in real time from Sound Control. Upon the detection of a perimeter exceedance deemed to be as a result of the Sydney Resolutions sound reinforcement systems, Sound Control will immediately contact the front of house sound control position to request a level decrease.

Contact with the Stage and sound control is in the first instance a text messaging interface in the SPLnet system and in the second, two way radio contact.

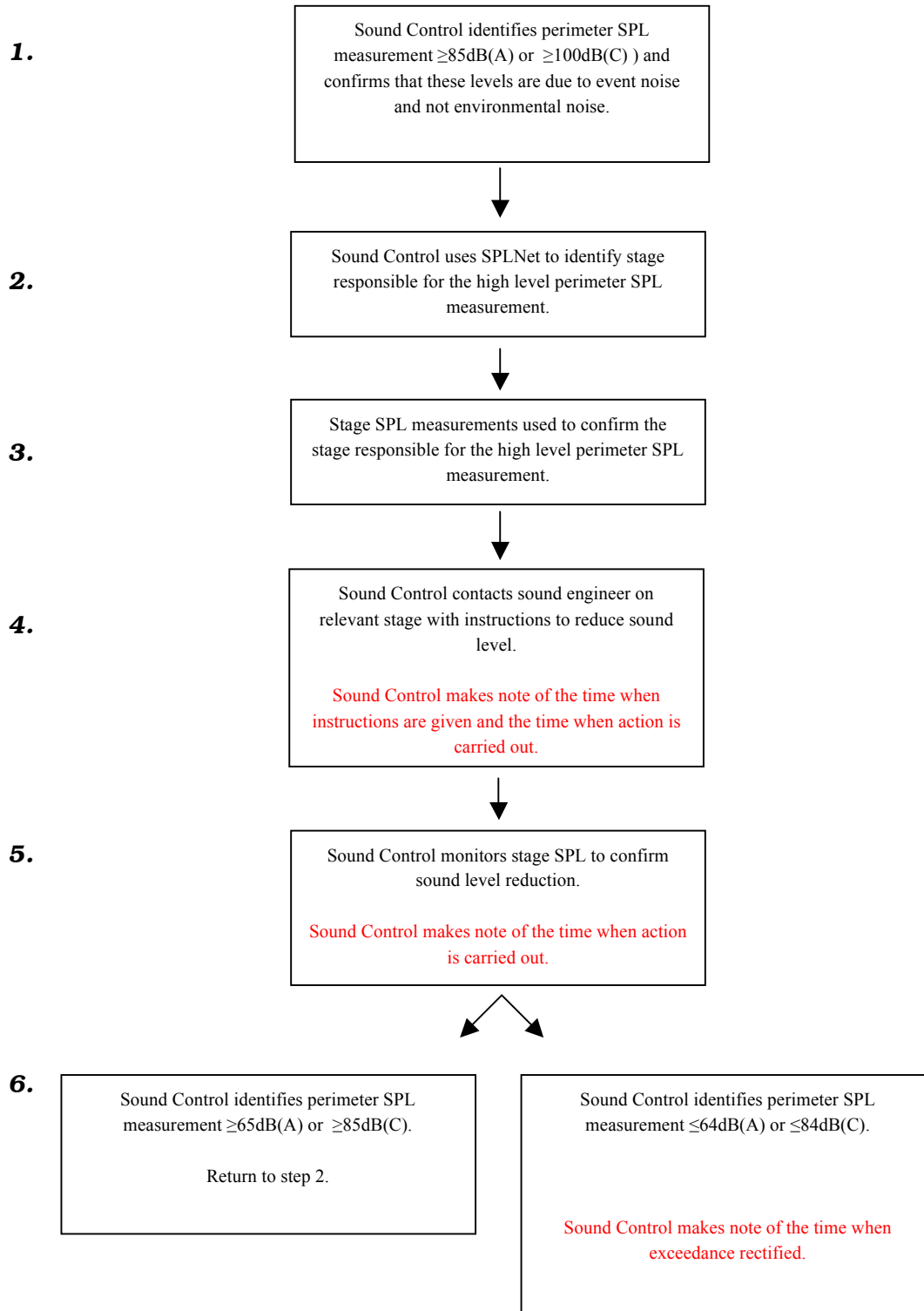
Below is the outlined operational sound management plan based on those used at Centennial Parklands.

Perimeter SPL exceedance prevention and correction using the fixed SPLnet perimeter measurement locations will use the following lines of communication.

**COMMUNICATION LINES,
SPLNET PERIMETER EXCEEDANCE PREVENTION.**

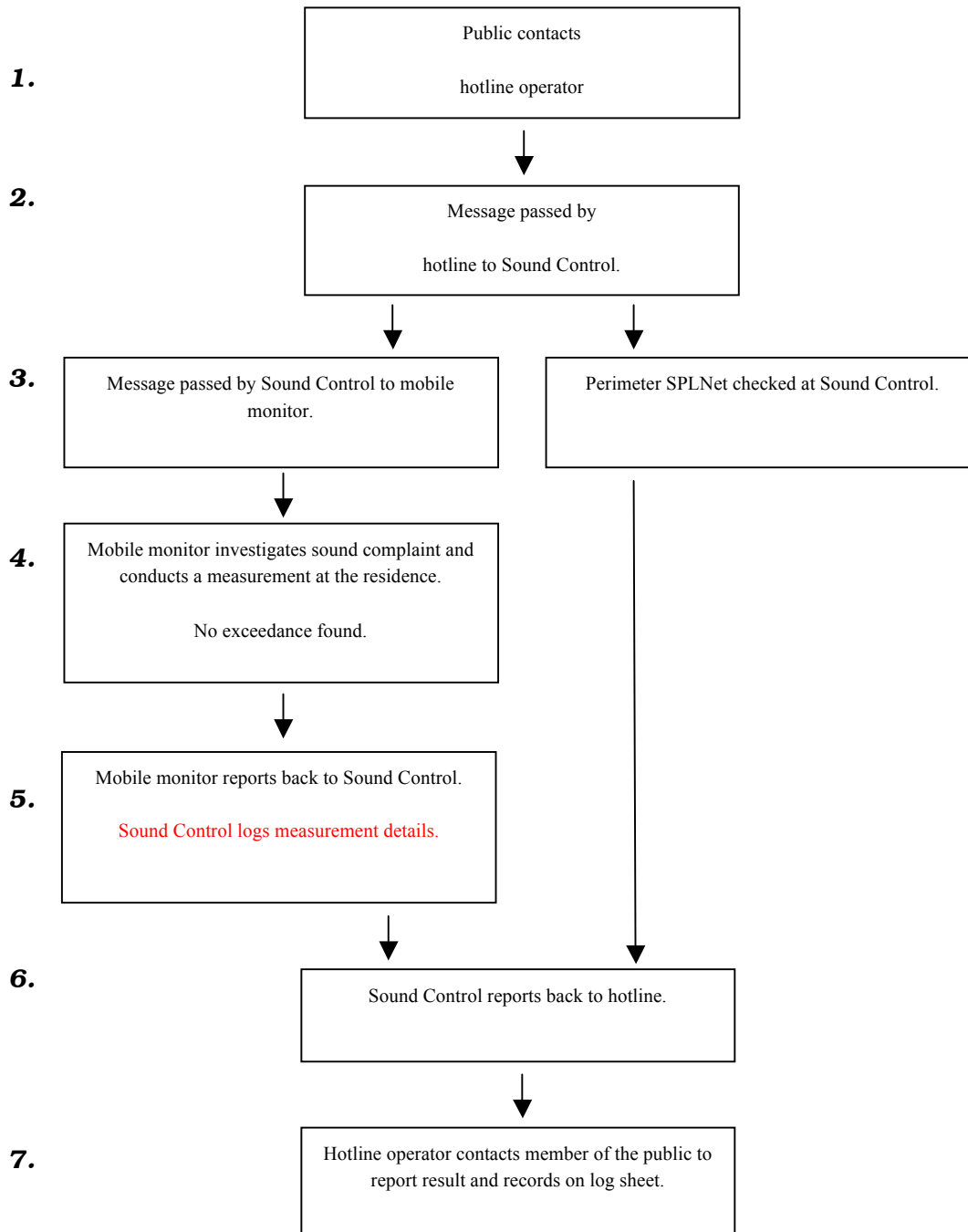


**COMMUNICATION LINES,
SPLNET PERIMETER EXCEEDANCE IDENTIFIED.**



The communication line for a public complaint, no exceedance.

**COMMUNICATION LINES,
PUBLIC COMPLAINT, NO EXCEEDANCE.**



The communication line for a public complaint, exceedance identified.

**COMMUNICATION LINES,
PUBLIC COMPLAINT, EXCEEDANCE IDENTIFIED.**

