

Event: 2016 DefQon1 Music Festival – Sydney
Proposed Date: Saturday 17 September 2016
Venue: Sydney International Regatta Centre [SIRC]
Analysis for Attendance: up to 25,000
Times: 10:30am to 11:00pm

DEFQON.1 Music Festival Saturday 17
September 2016
Transport Summary & Dispersal Analysis
Attachment 11b_v14May16

The purpose of this document is to provide a summary of the Transport & Bus Operations Summary based on Dispersal analysis for [up to 25,000 attendances](#).

Station Shuttle Bus Service:

We estimate the total egress capability needs to accommodate up to **16,750** in total may require Event Shuttle bus back to Penrith Station including **15,000** in the hour immediately after the conclusion of the event at 10pm. To help alleviate a large mass egress, a staged shutdown of the event will occur with two stages remaining open from 10:00PM – 11:00PM.

The proposed event shuttle bus route will take buses approximately 20 minutes to complete during ingress and up to 20 minutes during egress. During peak times the buses will take up to 2 minutes to load and 1 minute to unload, making return trip during ingress approx. 23min and egress 23min. During egress we are planning for each shuttle bus between SIRC and Penrith Station to be able to make up to **5 trips within 1hr: 40min (100min)**, being the main egress period, with some patrons leaving prior to conclusion of the event and some patrons deciding to leave slightly after the conclusion of the event.

Basic calculations during peak egress period of 10:00pm – 11:40pm (100mins); 2 bus loading areas of 3 buses loading for each area – 54 buses in total: therefore **54 buses** making **4.3 trips over 100mins** (258 bus movements to Penrith Station) with up to **65 people** in each bus provides a theoretical maximum capability over that period for **16,750 people**.

In addition to the above calculations we have to assume that during the lead-up to main egress approximately **1,800 people** will have left the site on the shuttle bus services prior to 10:00pm with a **further 400 people** slowly leaving the site after 11:40pm on a few shuttle buses that will have to make a 6th trip.

Mini-Loop Service:

The Mini-Loop Service will need to accommodate; all people who parked other than at the event car park (2,800 people) and anyone who walked from home directly to the venue (360 people), therefore we need an egress capability to move around 3,200 people from the site over 100 min, with each mini-loop bus performing 8 trips at (12min/trip), requiring 4 buses dedicated to the mini-loop service.

Additional Local Services from Penrith Station:

The organisers are looking into providing additional bus services to patrons who live local to Penrith Station and are unable to catch a Taxi, and in this case we are looking at **3 additional buses** for this service, that connects on the south side of Penrith Station.

Dispersal Analysis for 25,000 attendance:

Mode of Transport	Est. % Mode Share	Additional Notes, Estimates and Assumptions <u>Analysis based on up to 25,000 Attendance</u>
Est. Number of patrons utilising integrated ticket arriving and departing by Rail at Penrith Station.	16,904 (66.8%)	Assume same % of use for ingress and egress: Ingress Estimate: up to 17,000 may arrive on public transport and Shuttle bus from Penrith Station Egress Estimate: up to 17,000 may depart on public transport & Event Shuttle bus to Penrith Station
Est. Number of patrons utilising Drop-off/ Pick-up at Penrith Station then requiring Shuttle bus transfer to/from Venue	500 (2%)	Estimate 500 patrons will be dropped at Penrith Station and will catch event shuttle to SIRC.
Event Car Parking at SIRC @ \$20/ vehicle, estimated average 3/ Car	1,305 (5.2%)	Estimate 450 vehicles at 2.9 people per vehicle
Private chartered buses, interstate, NSW Suburbs.	3,600 (14.2%)	Estimate 3,600 for ingress/egress, requiring approximately 170 buses (minibus/coach)
Number of patrons assumed to have arrived by private car drop-off, private car parking in nearby suburbs.	3,000 (11.9%)	Estimate a total of 3,000 patrons leaving on foot via the mini-loop service.
Total	25,309	Attendance: 25,309

Please see **Attachment 11a Arrival & Dispersal Calculations** for detailed calculations for the above summary.