



Executive Group

Paper

<Note for authors: All fields are required. Don't forget to check the classification, and delete comments and the note for authors prior to submission.>

Title: Update: Expansion of Yallambie waste holdings to include legacy waste

Date: 18 January 2018

Item no: **Enter item no**

Purpose:

For information.

Issue

Approximately 210 drums of legacy low-level radioactive waste are to be transferred to the Yallambie site from Melbourne University. Modifications to the Yallambie building are in the planning stage, and regulatory approval will be sought as soon as a plan is finalised. Communications with stakeholders are ongoing.

Background

The Radiation Health Services Branch intends to expand its current source license storage of radioactive waste generated from the remediation of a legacy site at the University of Melbourne (UoM) in Parkville, Victoria.

The UoM site was once operated by the Commonwealth as the Commonwealth Radiation Laboratory (CRL) from the late 1920's to the 1970's. The activities that were conducted at the CRL during this time resulted in legacy contamination. Because of this the Commonwealth (represented by ARPANSA) is accepting responsibility for the waste produced from remediation of the site (being undertaken under contract by ANSTO).

Approximately 210 drums containing soil and building material contaminated with radium-226 require storage in a licensed radioactive waste storage facility. ARPANSA's licensed waste storage facility has limited capacity for accepting more waste, however parts of the Yallambie site are under-used and may be adapted for low-level waste storage.

There are several process currently underway in parallel. These have been summarised in Figure 1 and an update provided in the sub-sections that follow.

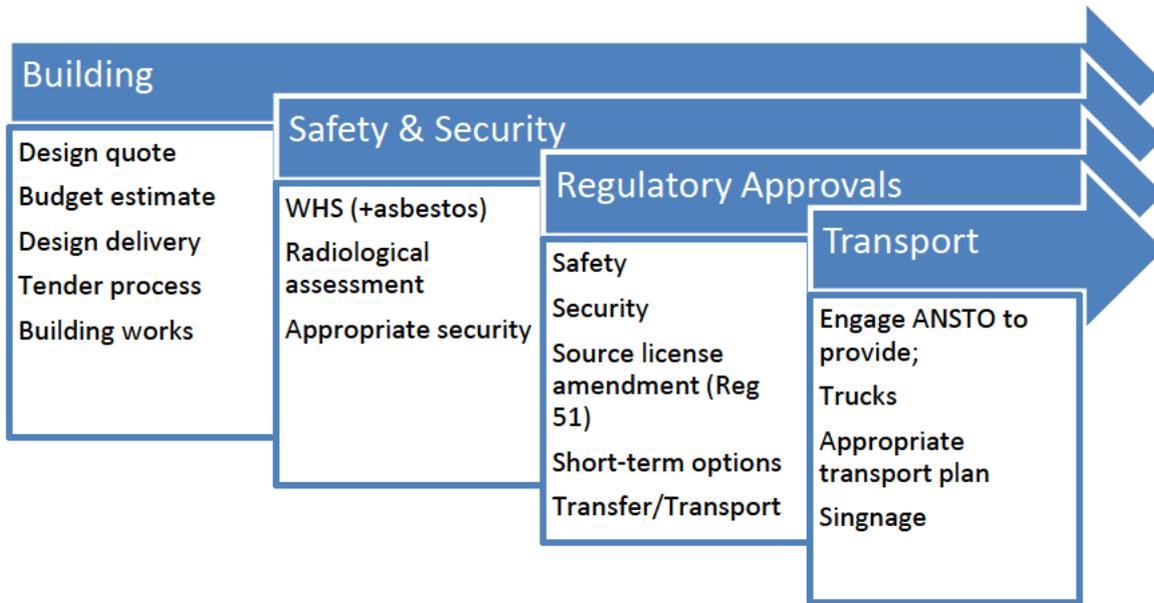


Figure 1 – Snapshot of processes – regular updates will be provided and appropriate EG approvals sought at various stages.

Waste Storage Options

Options for long-term storage of the waste have been considered, including;

1. Use of an existing [redacted] waste storage site
2. [redacted] within ARPANSA Grounds
3. Modification of the [redacted]
4. Use of [redacted]
5. Use (or modification) of ARPANSA Store

A Strength, Weaknesses, Opportunities and Threat (SWOT) assessment has been completed for these different options, and is included as Attachment 1).

It has been concluded that the optimal solution is Option 3, whereby the [redacted] are modified in order to store the waste in the medium- to long-term.

Proposed Building Modifications

As a result of the SWOT analysis, progression of Option 3 has commenced. Each of the steps requires EG briefing and/or financial approval to proceed. The steps involved are;

- Design
- Tender
- Construction

We are currently at the 'Design' stage. A request for a design quotation has been submitted (see Attachment 2), however due to the time of year there are delays in getting a quote and subsequently

having the design document produced. A quotation is expected to be available by the first week of February 2018.

The design quote includes provision for s 47G - business

Once the design is finalised a call for tender will be established in order to engage a builder for construction.

Short Term Storage

UoM has expressed some interest in having some drums transported as early as February. It is possible that up to 100 drums could be stored in the short-term in the s 47E - operations. The s 47E - operations (Option 4) has been identified in the SWOT analysis as a possible short-term storage option. Both areas are pictured immediately below.



Note that increasing the number of shipments from one to two will nearly double the cost (see Transport and Financial Implications below).

An agreed plan for longer-term and relevant regulatory approvals would need to be in place in order to accept any drums for interim storage.

Radiological Assessment

A detailed inventory of drum contents has been kept, including photographs. The total inventory is of the order of a few MBq, enabling s 47E - operations (<40 GBq Ra-226).

It is expected that a radiological assessment will be conducted prior to acceptance of the drums. This includes consideration of dose rate (within the facility and in adjoining work areas) and exhalation of radon over time (mitigated by ventilation systems). The estimated amount of radon emitted from the building will need to be calculated. Assessment will also be performed for interim storage areas, if required.

WHS

Health and Safety of ARPANSA staff is given the highest priority. The Radiological Assessment (above) will inform on the safety of the waste storage area.

Four of the drums contain asbestos, which will need to be stored safely in accordance with the associated WHS legislations.

Security risk assessments will be required based on the hazard and security measures put in place.

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Regulatory Approvals

All modifications for medium-long term storage and temporary (short-term) storage are subject to regulatory approval.

Initial discussions have been undertaken with the Regulatory Branch on options being considered for storage. RHS will apply for approval to modify the existing Source Licence under Regulation 51.

State and Federal regulatory approval will be required for transfer of the waste to ARPANSA.

Communications (see below)

Transport

Initial discussions have been undertaken with ANSTO regarding transportation of the waste. This would require an appropriate vehicle to drive from Sydney to Melbourne (2 days each way) and loading/unloading and local transport (estimated at 3-4 days).

ARPANSA has agreed to incur the cost of transporting the waste (see Financial Implications below).

The cost increases significantly if several shipments are required due to transport of an appropriate truck to and from Sydney.

Future Disposal

Ideally this waste can be disposed of in a National Radiological Waste Management Facility (NRWMF), however this depends on the Waste Acceptance Criteria, which is yet to be finalised.

Because the waste is low-level there may be an opportunity to reduce volume in the future by repacking, as much of the material would be exempt from regulatory control.

Sensitivity:

Sensitivities that have been identified include media, the public (immediate neighbours) and staff.

Legislation

No legislative amendments are required. RHS will need to meet the requirements of Regulation 51 as a licence holder to the satisfaction of RSB (and a third party regulator).

Financial Implications

There will be several costs during this project. All costs estimated below are subject to change.

- Design – expected to be approximately \$20K
- Relocation of Linac Chiller – at least \$30K
- Building works – Up to \$200K
- Transportation (single shipment) – One week staff time, accommodation, fuel. Awaiting estimate from ANSTO
- Possible

The complete relocation of the Linac control room is of the order of \$50K (to be confirmed)

Risk Analysis

The major risks to the Agency are;

- Reputational – ARPANSA must store its waste safely in accordance with international best practice. It would be reputationally damaging to the Agency to do otherwise. There is some risk that the acceptance of this waste will be perceived badly by the immediate neighbours (see Communication activities below).
- Cost – This is an unbudgeted activity with potential for high costs.

The SWOT analysis has identified these risks, and several options have been excluded due to the potential reputational effect. Costs are still being determined and will be communicated regularly to the EG as more information becomes available.

Timing/Handling:

Note: Due to the timescales involved, it is likely that short-term storage of the drums may be required.

Planned dates for further remediation by ANSTO in 2018:

12 - 23 Feb	Start removing southern floor and scanning soil; scan roof of northern half of building
5 – 16 March	Complete removing southern floor and scanning soil
26 March – 6 April	Demolish northern half of building

Timeline for design and tender process;

Monday 29/01/2018	§ 47F - privacy reopens from shutdown.
Monday 29/1/2018 to Monday 5/02/2018	§ 47F - privacy development of building design quotation and construction “Order of Costs” (1 wk)
Monday 5/02/2018	§ 47F - privacy to submit building design quotation and construction “Order of Costs” to ARPANSA.
Monday 5/02/2018	Andrew Clegg / Marcus Grzechnik meeting (Phone or in person) to clarify any aspects of design quote and order of costs with § 47F - privacy
Friday 9/02/2018	Proposed Date for ARPANSA to Raise a PO <u>if</u> Design Quotation acceptable.
Friday 9/02/2018	Design Start Date (3 week design window)
Monday 5/03/2018	Design Milestone 1 – Drawings/Documentation for Tender + the construction “Order of Costs” issued by Adam Soreli to ARPANSA

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Monday 5/03/2018	Design to continuing with refinements for Construction Issue Drawings – by s 47F - privacy (3 week window)
Monday 5/03/2018	ARPANSA issue for Tender (3 week window AusTender)
Monday 26/03/2018	ARPANSA Tender Close
Monday 26/03/2018	Design Milestone 2 – Submission of Drawings/Documentation for Construction
Wednesday 28/03/2018	ARPANSA Tender Recommendation and Letter of Intent to Builder to initiate works

ANSTO possible dates for transport

February: 11-16; 18-23

Marcus: 4-9; 11-16

April: 15-20; 22-27 (not confirmed)

The dates for design and Tender could mean that ARPANSA is not in a position to take any waste until April, as regulatory approval to accept the waste may not be possible until there is a plan for extended storage. As above, UoM would like to transfer some of the drums in February in order to increase the ‘room to move’ on the remediation site. All discussions are ongoing.

Communication

Consultation

Consultations have been held with the Staff Consultative Forum (SCF), OCEO (on Communications), groups impacted by Linac downtime, Agency Security and ARPANSA WHS. A lengthy discussion was held at the SMC on Communication externally (see next paragraph).

These consultations are ongoing.

Communication activities

There are no community awareness opportunities relating to this item.

Consultation with the OCEO Communications team and the SMC have determined that this activity can be considered to be ‘business as usual’. As such, external communications are not recommended.

Communications with Staff have been held via ISAAC, with several staff taking the opportunity to discuss the project one-to-one. No staff have expressed discomfort with the proposal at this stage.

Staff communication is ongoing.

Recommendations

That the EG **NOTE** the contents of this paper.

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Attachments

Attachment 1: SWOT analysis of options for long-term waste storage

Attachment 2: Project Brief sent for design quote

Contact

Author details		Clearance Branch or Office Head details:	
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Position:	Director MERS & Facilities Manager	Position:	Acting RHS Branch Head
Branch/Office	RHS	Branch/Office:	RHS

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Option	Strengths	Weaknesses	Opportunities	Threats	Assessment
<p>1. <i>Use of an existing</i> [REDACTED]</p>	<p>Construction not required</p> <p>Likely least expensive short-term option</p>	<p>Could be more expensive long-term</p> <p>Unpredictable</p> <p>ARPANSA does not have control of the waste</p> <p>Interim storage required while facilities are being upgraded</p> <p>Significant transport distances required.</p> <p>Dependent on [REDACTED] timeframes for negotiation agreements and obtaining other regulatory approvals.</p>	<p>Nil</p>	<p>Sites are currently not able to receive waste</p> <p>Waste could be returned at any time, and ongoing costs required</p> <p>Possible reputational damage if ARPANSA waste is held at a facility not considered international best practice</p> <p>ARPANSA should be a leader in management of its own waste</p>	<p>This was initially thought to be a good options, however upgrades of [REDACTED] are currently required in order to store the waste</p> <p>This is not a preferred option at the moment, however interim storage at Yallambie with a plan to send to an acceptable facility for medium/long term storage could still be considered</p>
<p>2. <i>Structure within ARPANSA Grounds (e.g. shed, container, etc.)</i></p>	<p>Consolidation of most of ARPANSA waste to one area within site footprint.</p> <p>ARPANSA controls & manages waste in accordance with IBP</p> <p>Good access for forklifts</p>	<p>Facility works to meet WHS and Security standards required (one off cost)</p> <p>Ventilation and monitoring more difficult (still possible, however)</p>	<p>Extra space can be factored in if waste increases or return of waste currently held at [REDACTED] is required.</p> <p>Opportunity to re-packing and reduce volume of waste</p>	<p>Reputational risk if not a best practice facility</p> <p>Reputational risk with ARPANSA neighbours</p> <p>Not considered secure enough by staff/neighbours</p>	<p>It is difficult to go past the security and reputational risk of this option</p> <p>This is not a preferred option</p>

<p>3. s 47E - operations</p>	<p>Consolidation of most of ARPANSA waste to one area within building footprint.</p> <p>ARPANSA controls & manages waste in accordance with IBP</p> <p>s 47E - operations (will be upgraded appropriately)</p> <p>Good ramp and height access for forklifts</p> <p>Ventilation can be managed</p>	<p>Some verification of area of existing building and further building (walls) required</p> <p>Facility works to meet WHS and Security standards required one off cost)</p> <p>Relocation of s 47E - operations required (but was required anyway)</p>	<p>Opportunity to reclaim unused space within the building footprint</p> <p>Large enough for some expansion and stacking of drums</p> <p>Potential to be a best practice storage facility</p> <p>Opportunity to re-packing and reduce volume of waste</p>	<p>Use s 47E - operations not deemed appropriate by operators/staff</p> <p>Floor or walls not strong enough to accommodate racks and waste</p> <p>Possible unreasonable costs</p> <p>Tight timescale means that design, quote and building may not be completed when ARPANSA takes control of waste</p> <p>Reputational risk with ARPANSA neighbours</p>	<p>Reputationally sound option that re-claims building footprint</p> <p>Quotes to be sought, however the risk of time slippage is very real</p> <p>One of two preferred options</p>
<p>4. <i>Basement cages – current holdings to be consolidated and stored elsewhere (e.g. offsite or in s 47E - operations)</i></p>	<p>Consolidation of most of ARPANSA waste to one area within building footprint.</p> <p>ARPANSA controls & manages waste in accordance with IBP</p> <p>Ventilation can be managed (area is already</p>	<p>Possible Height restrictions for forklifts</p> <p>Not currently a secure area</p> <p>Possibly some extra security required</p> <p>Possible issues with long-term storage due to</p>	<p>Extra space can be factored in if waste increases or return of waste currently held at s 47E - operations</p> <p>Space for possible re-packing to reduce volume</p> <p>Possible reduction of s 47E - operations historic materials</p>	<p>If building works required impact on building of s 47E - operations possible</p> <p>If the Security arrangements are not considered adequate and costs blow out</p> <p>Inadequate support from 'owners' of materials in</p>	<p>Likely to be the lowest cost option. Extremely likely to be the only option that will meet the time limits imposed.</p> <p>Opportunities in storage of archives and utilising wasted building space</p> <p>Recommend to explore further</p>

<p>room (with s 47E - operations</p>	<p>ventilated to outside but secure)</p> <p>Low costs as no significant building required</p>	<p>weather exposure from outside</p> <p>Access to ducting required in longer term</p>	<p>Movement of this store to s 47E - operations could mean that paper and electronics may be stored</p>	<p>the cage to consolidate in time</p> <p>Reputational risk with ARPANSA neighbours</p> <p>Long-term storage may be an issue due to exposure to outside air and possible s 47E - operations</p>	<p>Most likely an option for short-term storage if building project delayed</p>
<p>5. Claim ARPANSA Store for Waste Storage</p>	<p>Consolidation of most of ARPANSA waste to one area within building footprint.</p> <p>ARPANSA controls & manages waste</p> <p>Large area. Space to manoeuvre forklifts.</p> <p>Easy access from the rear of the building (roller door).</p> <p>Ventilation can be managed</p> <p>Very little building may be required</p>	<p>Access for delivery of large equipment/cargo will be impacted and a suitable alternative might not be available.</p> <p>Current store equipment would need to be relocated, impacting on another (smaller) area</p> <p>Specialist areas of store would need to be co-located or re-located</p> <p>Work may need to be undertaken on exterior of building s 47E - operations</p>	<p>Potential to consolidate all waste holdings into the one store.</p> <p>Extra space if waste increases or return of waste currently held at s 47E - operations</p> <p>Potentially could enhance ARPANSA's reputation in waste management</p>	<p>If there is not an alternative option for the store and large deliveries (e.g. PRMS)</p> <p>Threat to continuity of commercial activities</p> <p>Blowout in projected costs because increased building requirements</p> <p>Displacement of staff (staff are currently in store for a short proportion of the day)</p> <p>Reputational risk with ARPANSA neighbours</p>	<p>The potential for a consolidated waste store is attractive, however there is a need to 'undo' an area that was purpose-built for its current function.</p>

	s 47E - operations	Height may not be sufficient for forklift (ventilation ducting is quite low)			
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Project Brief & RFQ– Waste Storage Area Yallambie

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Project Name:	Waste Storage Area - Yallambie		
Date:	29/11/2017	Release:	Issue for Design Quotation
Author:	A.Clegg		
Owner:	A.Clegg		
Container:	TBA		

Revision Date	Previous Revision Date	Summary of Changes	Changes Marked
16/11/2017	V0	Draft	-
29/11/2017	V1	Draft for Comment & Stakeholder engagement	-
13/12/2017	V2	Issued for Design Quotation	-

Project Definition:

The ARPANSA Yallambie Facility is located at 619 Lower Plenty Road, Yallambie, Vic 3085. It is proposed to create a Waste Storage Area at this site located in the rear ground floor **s 47E -** Some minor construction works are required to increase the size and capacity of the proposed waste storage area. These works are broadly to extend the internal block wall of the Modular Room into the **s 47E - operations**.

Request for Quotation (RFQ):

A quotation is required to provide a detailed design and documentation to allow sourcing of 3 quotations from builders to fulfil ARPANSA governance requirements. Quotation due **22 December 2017**

The quotation should include the following design requirements:

- Production of Drawings (both .dwg and .pdf format) for tender/construction and as-built issues for **s 47E -** changes and also drum/pallet/racking layout drawings.
- Production of a Scope of works for builder
- Allowance for the Designer to liaise with Building Surveyor and arrange permit documentation for ARPANSA

- Design to comply with Commonwealth Requirements including safety in design.
- Confirmation that floor loadings would be adequate.
- Calculation and confirmation of maximum loadings of existing floor and also walls with racking. (This is to provide information of design limitations for any future changes of the area or capacity).
- Design issue date 30/01/2018
- Final inspection of construction with ARPANSA and assistance with defect listings.

Project Functionality:

The proposed waste storage area in the s 47E - [REDACTED] will be to house 210 drums of building material waste. Drums used for this storage are of the 44-gallon type drums. These will be transported to ARPANSA on "Chep Type" pallets. Each pallet will contain four drums. Each drum is rated at maximum of 220 kg and mass of contents will not exceed this. Of note is that whilst this is the maximum drum load and weight some drums may be significantly lighter than this due to contents being lighter weight (e.g. wood beams). A detailed drum manifesto (via ANSTO) will be available with drum referencing contents and weights. For the purposes of project design and construction, the maximum drum loading of 220 kg shall be assumed.

The waste storage area in the s 47E - [REDACTED] will require removal of existing equipment, sealing of floors and wall penetrations and painting. The final arrangement will include installation of air flow, appropriate locking, local alarms and shelving to accommodate drums.

Drum configuration inside the proposed expanded s 47E - [REDACTED] /new Waste Storage Room is for:

- A lower level of drums on pallets to be mounted on the concrete floor.
- A second, higher level, is proposed to be mounted on shelving directly above the lower level of drums. For design purposes it should be assumed that a third level of shelving is included so that the drums may be arranged three-high.
- Drum location and placement is to facilitate regular visual inspections, air circulation and accessibility for any future drum/pallet handling via a forklift (e.g. Crown model 25WRTL102 or similar unit).

Building Changes:

No Change:

Door from s 47E - operations [REDACTED] (Existing electric "Kara" brand lock installed)

Courtyard

Basement Linac area

Plant Room Ramp

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Changes:

Extend § 47E - [REDACTED] – Refer Attachment A.

Engineering consultant engagement and report for;

- core drilling,
- floor loadings, and
- wall strength for proposed drums and racking.

Core drilling for chiller unit pipe rerouting

Remove data and electrical cable trays.

New § 47E - [REDACTED] walls.

Internal roof above modulator room to be extended across new walls.

Seal wall and floor penetrations. (leaving space for data cable runs and draw wires). Suggested approach is inserting steel bridge to maintain cable route for future cable runs and caulk/seal with cement. Inspection recommended.

Ceiling, wall and floor caulk seal, prep and paint.

Chiller:

Existing Linac Chiller Unit MTA EVO 051 (located in § 47E - [REDACTED]):

- Relocation/recommissioning and Split system pipe rerouting. Location in cooling tower area (Level 1)
- Install 3 phase outdoor switched socket switchable for Chiller Unit (MTA EVO 051) 7.90kW
- Install basic galvanised iron / colour-bond roof in cooling tower area covering. Function is to cover Chiller Unit (MTA EVO 051)
- Positioning – allocation to leave adequate space for a further new linac similar chiller unit to be install adjacent in separate project during April – June 2018.
- Supply/install of piping, Armaflex insulation associated with Chiller relocation

Fire Systems:

Fire Systems Upgrades where required for compliance (consolidation of alarms, out of date sprinkler head replacement, thermal and smoke detector replacement if necessary).

If necessary, upgrades of legacy for present day code compliance.

Building Certifier (including Fire Systems)

Security:

Security Systems – Mechanical or electric door combination locks. No other security is required.

Monitoring Alarms:

Install 3 wireless Radon detectors. Position to be discussed with ARPANSA (Corentium Pro Airthings units Detectors). Information available upon request.

Electrical:

Install - 3 Phase weather proof supply suitable for 7.9kW installed in L1 Cooling Tower area.

Retain existing GPOs in original **s 47E - operations** areas where possible. No further GPO's to be installed in **s 47E -**.

Replace **s 47E -** lighting with energy efficient LED lighting. One way switching if one door.

All circuits shall be labelled. All switches and GPO's shall be labelled with the source distribution board number and circuit number.(Eg "DBU1 – CB 23")

Wiring to be completed at AS3000 with a certificate of Electrical Safety for any works provided.

Ventilation:

No heating or cooling requirements – Air flow only.

Air Conditioning review and report on venting arrangements and airflow changes. Proposed to have design 6 air changes an hour with 5 l/s per sq m floor area to comply with AS/NZS 1668.

Air Supply fans supply/install. Two air supply units located on ground floor (two units specified for redundancy). Operation to be installed to existing Building Management System (BMS) with push local and SMS alarm notifications.

One exhaust vent only (no fan) located at ceiling level at opposite site of room. Exhaust fan final venting via roof and shall be weatherproof (i.e. flashing sealing around supply and exhaust penetrations).

Fire Systems:

To be configured to suit occupancy and should be consistent with previous stages and also building purpose e.g. exit lights, fire extinguishers, smoke detectors, sprinklers as appropriate.

Data/Alarms:

Ventilation Alarm to the ARPANSA BMS as detailed in “Ventilation” section.

Reliable Controls BMS to be expanded for a mobile modem and programmed for the ability to send push sms notifications.

Floor Coverings:

Sealed and painted concrete floor finish. Colour - Grey. Make good to existing surfaces.

Doors

One door to remain into plant room ramp. Functionality – small forklift and personnel access. Forklift details available upon request.

To be confirmed as compliant with Building Code. If non-compliant designer to provide economic solution.

Building Code

Builders to comply with the Australian Building and Construction Commission as per work for Commonwealth entities (see <https://www.abcc.gov.au/building-code/funding-entities>).

Construction Access:

- Rear Basement double secure door via plant room ramp to § 47E - [REDACTED].
- Ramp to be a common or shared space for staff and maintenance contractor’s space
- Construction zone anticipated to be from the door from plant room ramp to § 47E - [REDACTED].
- Appropriate signage/barrier/temporary hording is anticipated in the § 47E - [REDACTED] to zone off the construction area for safety..
- Work to be completed in business hours. 0700 – 1700 Monday to Friday.
- Note Shutdown period of 22/12/2017 to 4/01/2017

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Health & Safety Considerations

As is typical for this age of building asbestos is present in some areas. The ARPANSA asbestos register is included for inspection.

Most electrical circuits are well labelled. However all electrical circuits should be tested to confirm source and state. Please note that ARPANSA require any ceiling grid should be inspected and tested to ensure during construction works that this does not become electrically energised/live.

Fire and smoke detector isolations, augmentations and re-commissioning is via written approval from ARPANSA Facility Manager. 5 days notice is requested for large non routine works.

Security:

Refer Attachment D: Construction Access & Security – Yallambie.

Records:

ARPANSA Records - Hard Copy Facility drawings are available for inspection and a copy can be provided electronically. However this is by person and by arrangement.

Service Provider Records:

These remain the property of ARPANSA at all times (both .dwg and .pdf).

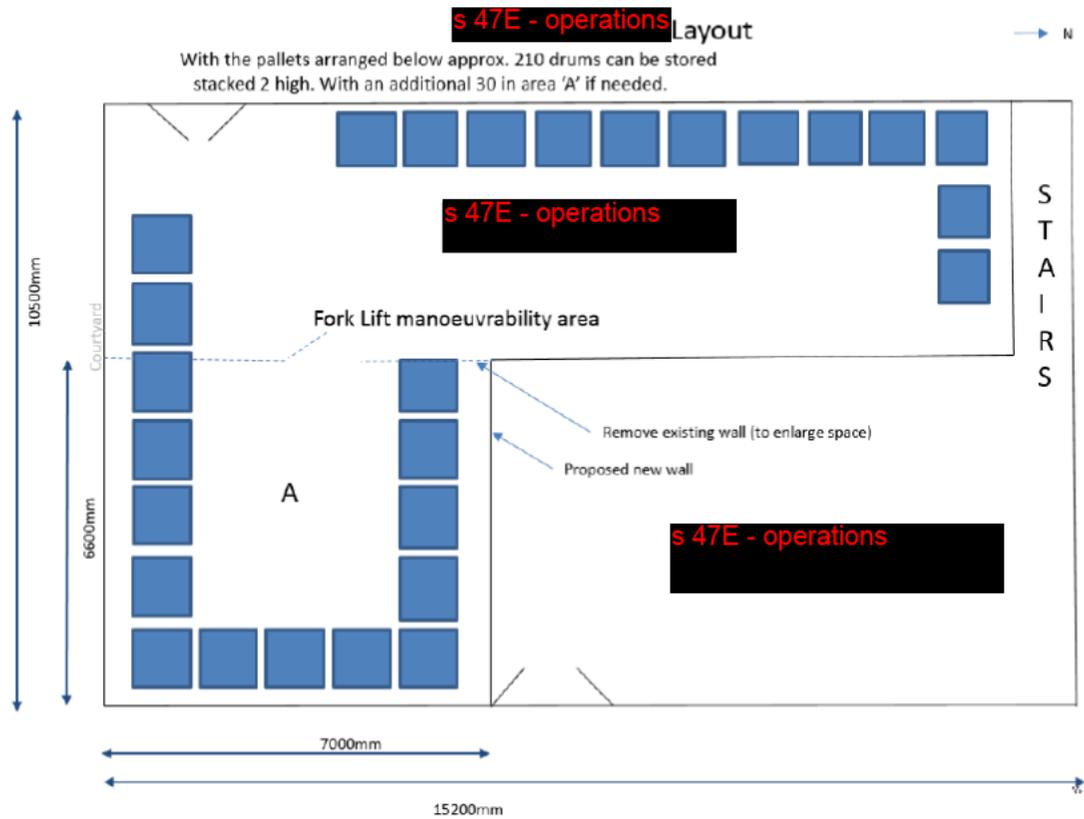
Electronic files in .dwg and .pdf file formats shall be provided to client ARPANSA at the following stages;

- (i) Tender/Quote
- (ii) Issued for Construction Stage, and
- (iii) As-Built Stage

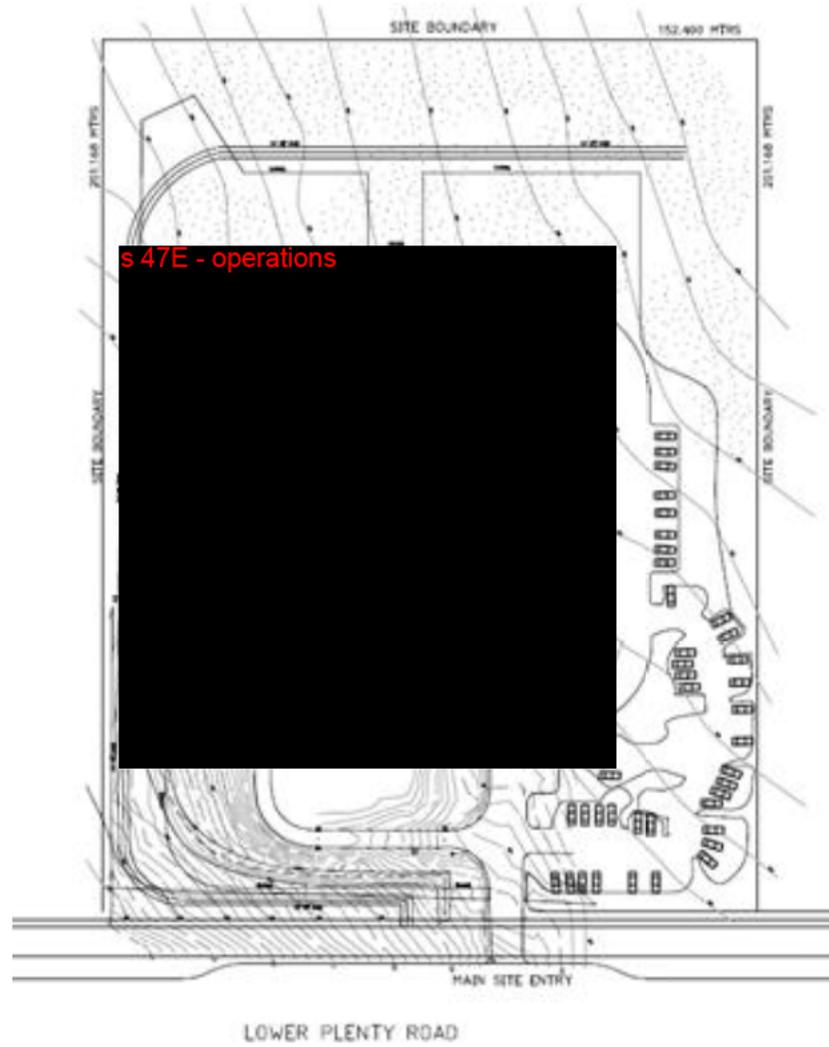
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Attachment A – Proposed Area



Attachment B – General Area:

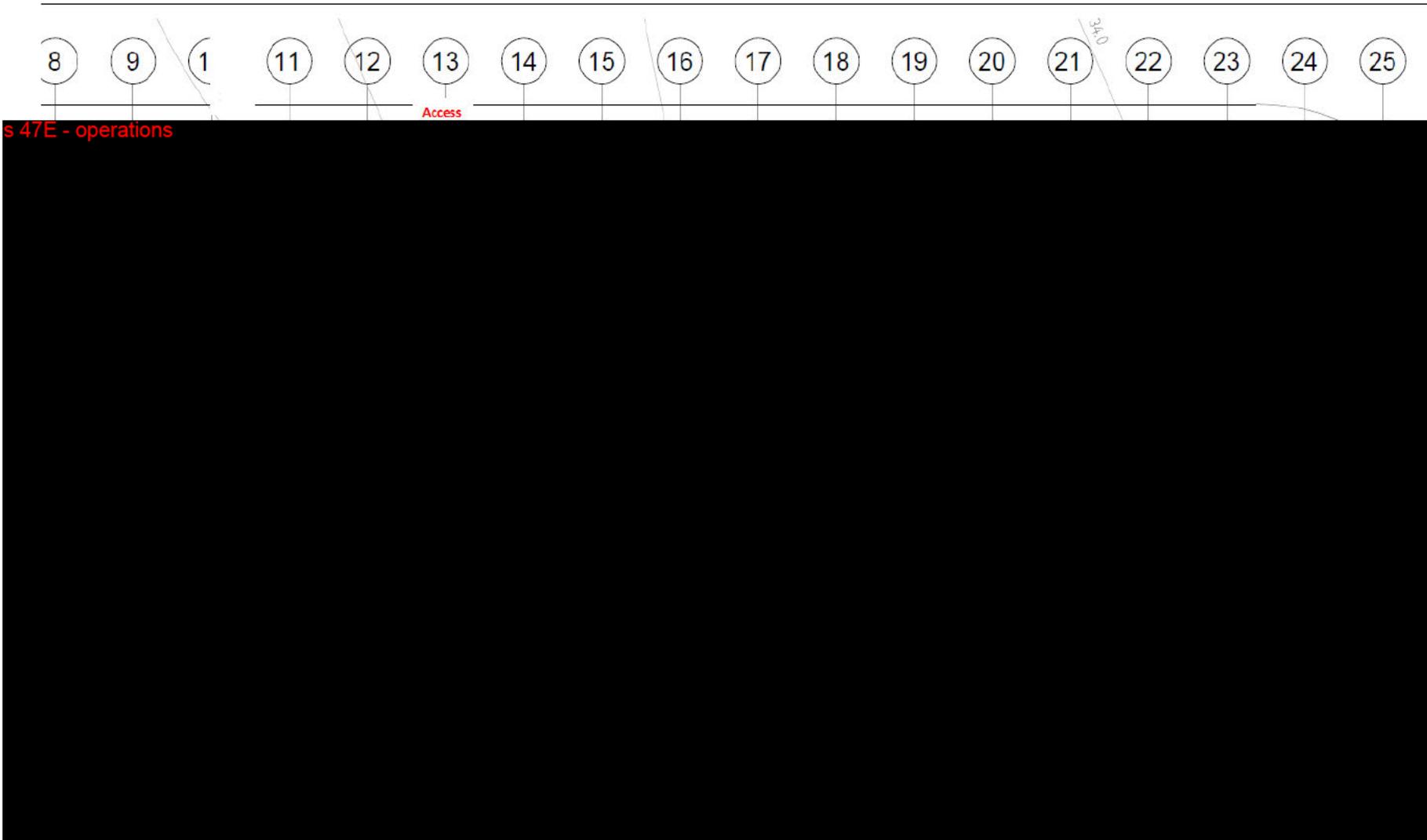


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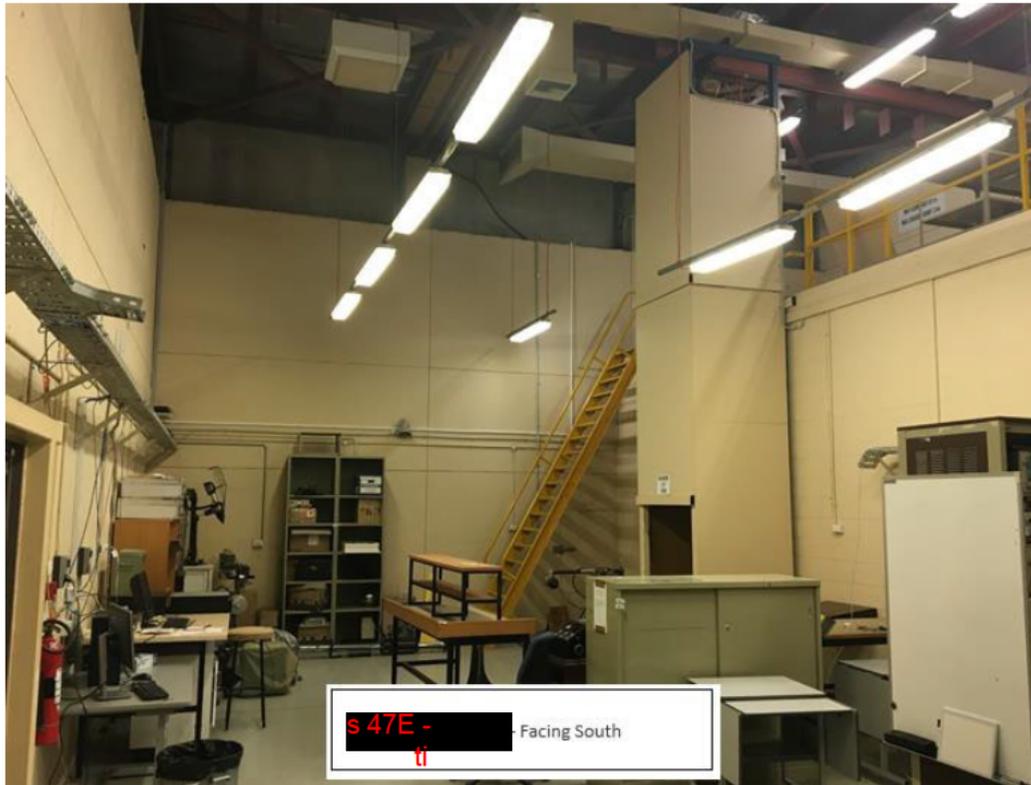
s 47E - operations

Access

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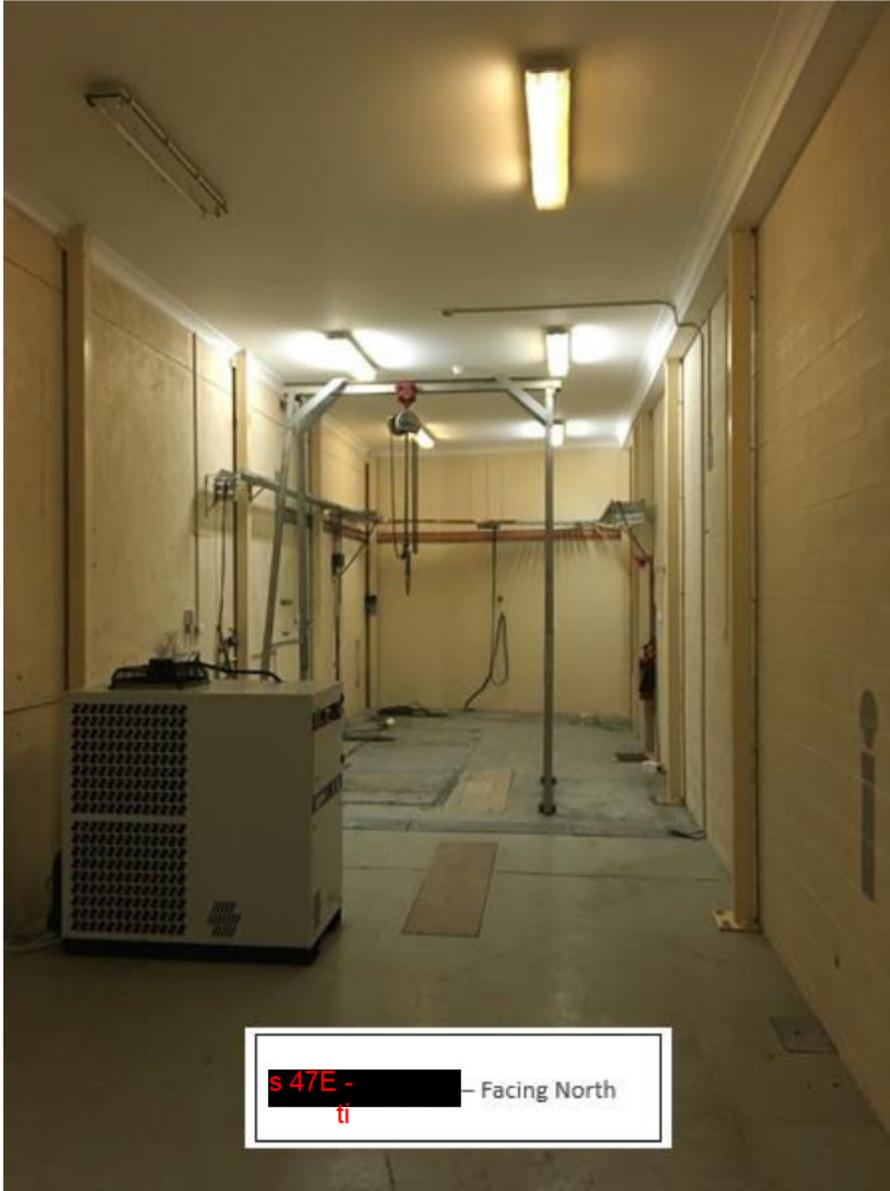
Attachment C – Photographs:



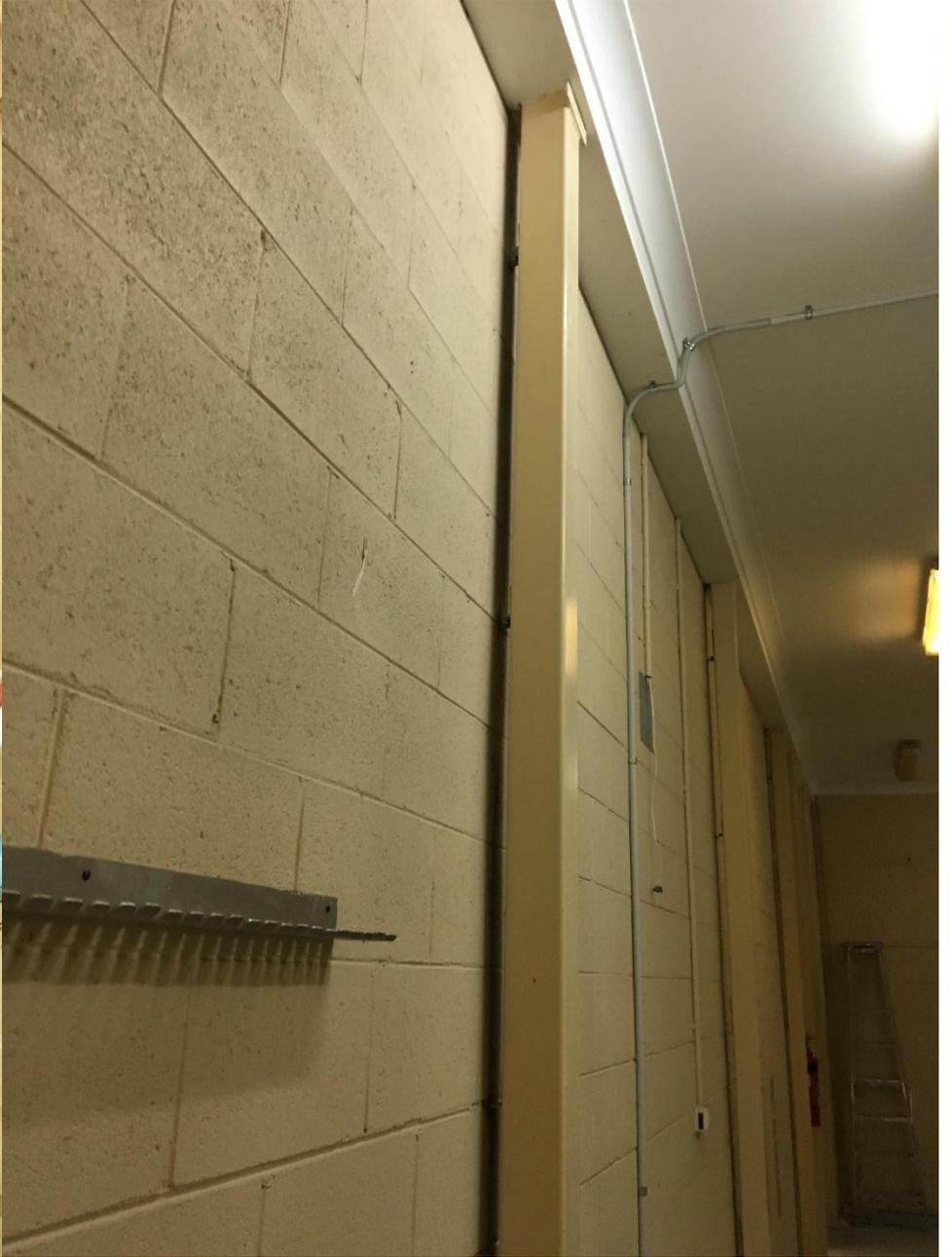
s 47E - [redacted] Facing South
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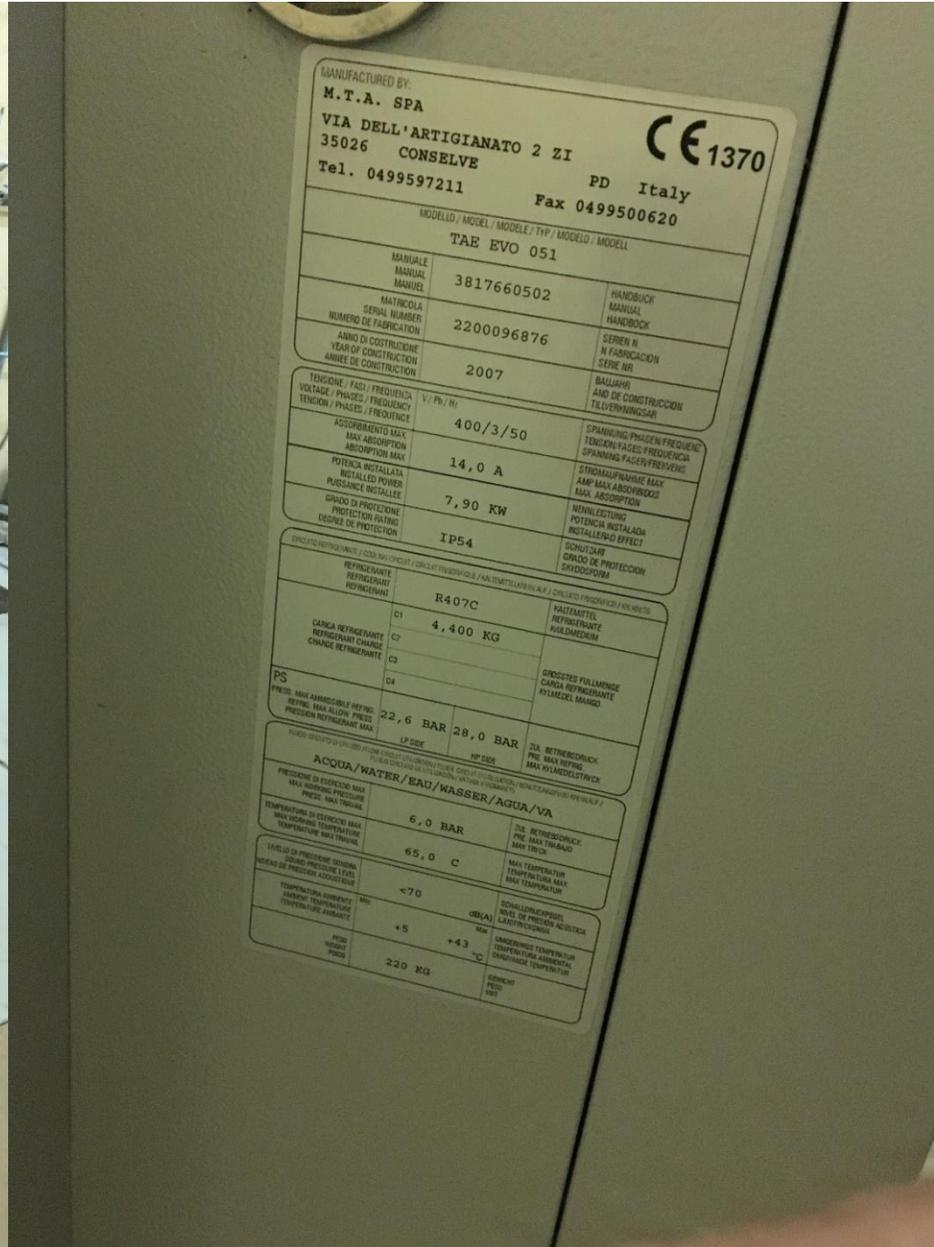














New Position for Chiller Unit in Cooling Tower Area L1



Attachment D

Construction Access & Security - Yallambie

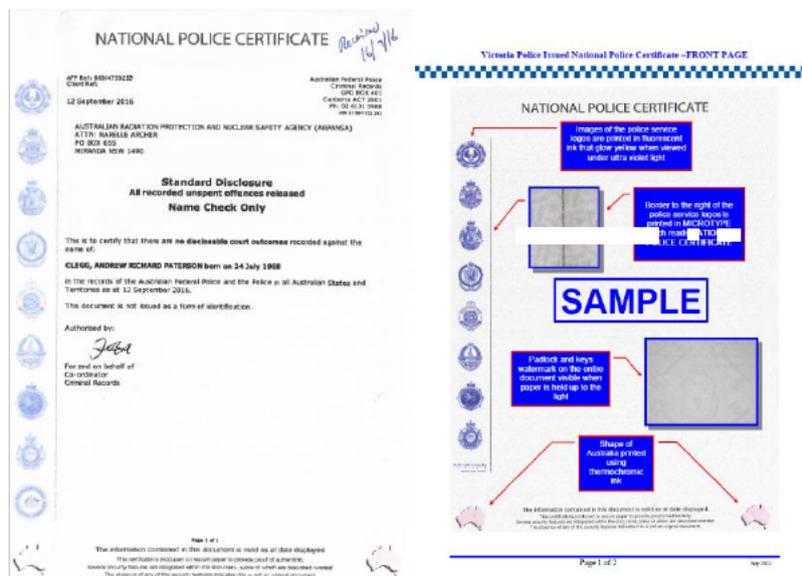
- Construction site to be labelled and have a clear demarcation zone starting from Level 1 adjacent to stairs.
- Demarcation zone between construction zone and office space.
- Basement area and lift space will be a shared space with construction staff and office staff
- Lift to have proactive protection lining and L 1 door frames installed to ensure no damage occurs.
- Contractors to have their nominated Site Manager on site at all time. (Or appointed delegate).

Site Manager and all other Construction personnel:

Includes main contractor staff and subcontractors.

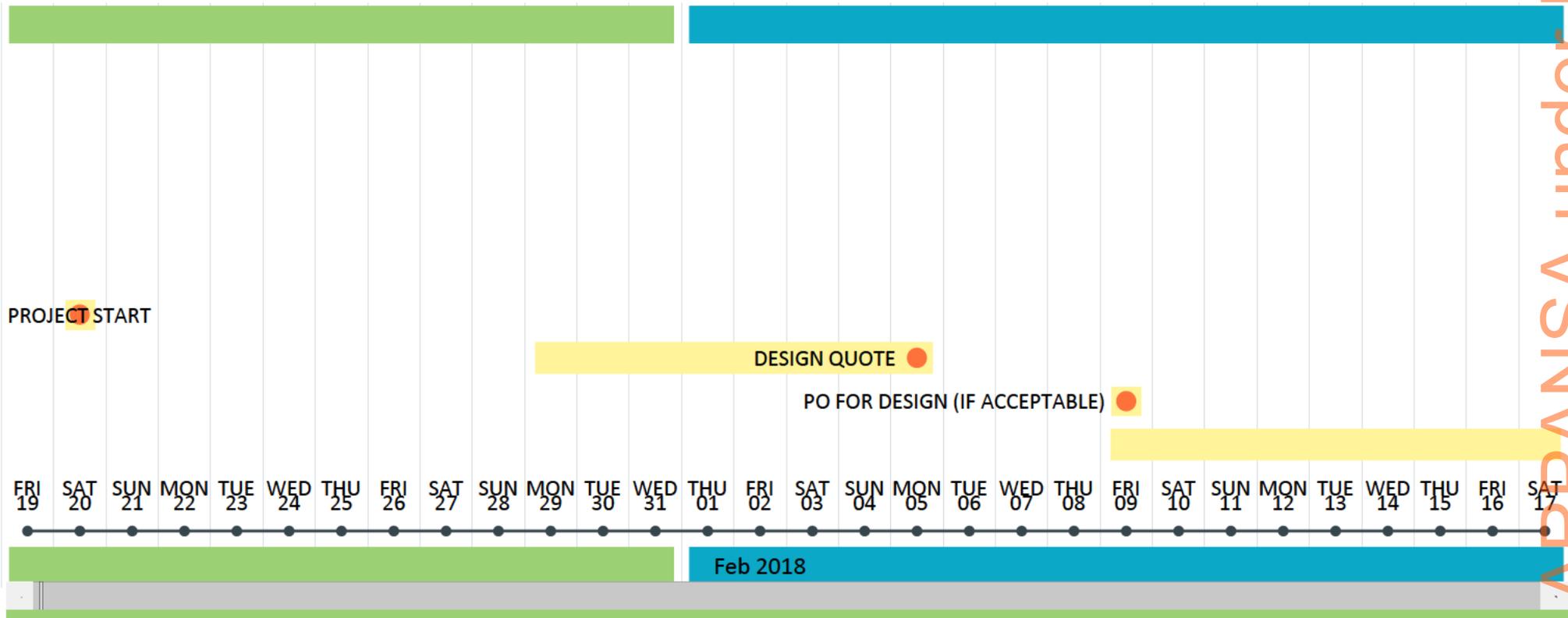
- All to be nominated including subcontractors.
- Photo ID required to be presented prior to project start and sighted on attendance.
- Required to have a current *“Victoria Police Issued National Police Certificate”* (refer attachment A below).
- An alternative online Police History Check is acceptable (NCC/CV Check/Fit for Work) – however care needs to be exercised as these can expire.
 - (If the main contractor’s nominated subcontractor is substituted. ARPANSA is to be notified. In this case access for this person will be via an escort at all times by an employee of the same company).

Attachment A - “Victoria Police Issued National Police Certificate”.



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PROJECT TIMELINE



ENTER START DATE:

17/01/2018

ACTIVITY	START	END	NOTES
Project Start	20/01/2018		
Design Quote	29/01/2018	5/02/2018	
PO for design (if acceptable)	9/02/2018		

ACTIVITY	START	END	NOTES
Design (3 weeks)	9/02/2018	5/03/2018	
Milestone - Drawings/Docs for Tender to ARPANSA	5/03/2018		
Milestone 5	15/03/2018	17/03/2018	
Milestone 6	25/03/2018	27/03/2018	
Milestone 7	4/04/2018		
Milestone 8	14/04/2018	16/04/2018	
Milestone 9	24/04/2018	26/04/2018	
Milestone 10	4/05/2018	6/05/2018	
Project End	14/05/2018		

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From: [Andrew Clegg](#)
To: [Marcus Grzechnik](#)
Subject: Fwd: ARPANSA STORE Design Quotation and next steps. [SEC=UNCLASSIFIED]
Date: Wednesday, 7 February 2018 5:16:12 PM
Attachments: [ARPANSA - 619 Lower Plenty Road VIEWBANK.pdf](#)
[ATT00001.htm](#)

FYI

Let's discuss in the am.

Regards
Andrew Clegg
Facilities Manager
ARPANSA
0418 645 596

Begin forwarded message:

From: s 47F - privacy
Date: 7 February 2018 at 3:52:26 pm AEDT
To: Andrew Clegg <andrew.clegg@arpansa.gov.au>
Subject: RE: ARPANSA STORE Design Quotation and next steps.
[SEC=UNCLASSIFIED]

Hi Andrew

Following on our telephone conversation earlier, please find attached our Professional Building Surveying, design and consultancy as requested.

Once again thank you for the invitation and we look forward to working with you on this and future projects.

As always happy to discuss and answer any questions.

Kind regards

s 47F - privacy

[A. S. Building Consultants](#)

----- Original Message -----

From:
"Andrew Clegg" <andrew.clegg@arpansa.gov.au>

To:
s 47F - privacy

Cc:
"Marcus Grzechnik" <Marcus.Grzechnik@arpansa.gov.au>

Sent:
Mon, 5 Feb 2018 22:37:40 +0000

Subject:
RE: ARPANSA STORE Design Quotation and next steps.

Released by ARPANSA under FOI

[SEC=UNCLASSIFIED]

Hi I will call you just after 10am

From: s 47F - privacy
Sent: Friday, 2 February 2018 11:10 AM
To: Andrew Clegg <andrew.clegg@arpansa.gov.au>
Subject: RE: ARPANSA STORE Design Quotation and next steps.
[SEC=UNCLASSIFIED]

Hi Andrew

2pm Monday 5 Feb is fine, Adam will call you to discuss the design cost and etc.

Kind regards

s 47F - privacy

A. S. Building Consultants

----- Original Message -----

From:

"Andrew Clegg"

<<mailto:andrew.clegg@arpansa.gov.au>><andrew.clegg@arpansa.gov.au>

To:

[REDACTED]

Cc:

"Marcus Grzechnik"

<<mailto:Marcus.Grzechnik@arpansa.gov.au>><Marcus.Grzechnik@arpansa.gov.au>,

"Silvio Malfitana"

<<mailto:silvio.malfitana@arpansa.gov.au>><silvio.malfitana@arpansa.gov.au>

Sent:

Wed, 31 Jan 2018 01:23:21 +0000

Subject:

RE: ARPANSA STORE Design Quotation and next steps.
[SEC=UNCLASSIFIED]

Hi [REDACTED]

Hope you had a good break.

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What time shall we have a meeting on Monday (in person or over the phone) to discuss the design quote and order of costs? Would say 2pm suit? Please let me know and I will send out an Outlook invitation.

Regards

Andrew Clegg

Facilities Manager

Australian Radiation Protection and Nuclear Safety Agency

619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

Mobile 04 1864 5596

email

<mailto:andrewmailto:andrew.clegg@arpansa.gov.au>

<http://www.arpansa.gov.au>

From: Andrew Clegg

Sent: Friday, 12 January 2018 10:58 AM

To: s 47F - privacy

Cc: Marcus Grzechnik

<mailto:Marcus.Grzechnik@arpansa.gov.au>; Marcus.Grzechnik@arpansa.gov.au;

Silvio Malfitana

<mailto:silvio.malfitana@arpansa.gov.au>; silvio.malfitana@arpansa.gov.au

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[SEC=UNCLASSIFIED]

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- s 47F - privacy reopens

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from shutdown.

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Andrew Clegg
(ARPANSA available this week for any on site inspection or review of drawings (A3 Sets printed for your reference)

Monday 5/02/2018 – s 47F - privacy to submit building design quotation and construction “Order of Costs” to ARPANSA.

Monday 5/02/2018 Andrew Clegg / Marcus Grzechnik meeting (Phone or in person) to clarify any aspects of design quote and order of costs with s 47F - privacy .

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Friday 9/02/2018 Design Start Date (3 week design window)

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Monday 5/03/2018 ARPANSA issue for Tender (3 week window AusTender)

Monday 26/03/2018 ARPANSA Tender Close

Monday 26/03/2018 Design Milestone 2 – Submission of Drawings/Documentation for Construction

Wednesday 28/03/2018 ARPANSA Tender Recommendation and Letter of Intent to Builder to initiate works

This should reflect my notes but if there is a difference please let me know asap as we will now lock this in with our Executive and CEO.

Thanks again.

Regards

Andrew Clegg

Facilities Manager

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Australian Radiation Protection and Nuclear Safety Agency

619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

Mobile 04 1864 5596

email

<mailto:andrew.clegg@arpansa.gov.au>

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Australian Institute of Building Surveyors



REGISTERED
Building Practitioner



building consultants

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7 February 2018

Andrew Clegg
Facilities Manager
ARPANSA
C/o 619 Lower Plenty Road
VIEWBANK VICTORIA 3084

Dear Andrew

Re: Alterations & additions to an existing waste storage area
At: No. 619 Lower Plenty Road VIEWBANK/YALLAMBIE

Thank you for the invitation to provide the fee proposal for our professional building surveying, building design, engineering and consultancy services.

I advise that our proposal is as follows:

1. **The service offered:**

- Consultation;
- Liaise and consulted with client, Draftsperson, engineers and Local Authority (Banyule Council);
- Obtain the property information from Council;
- Arrange to engage a draftsperson to prepare the working drawings;
- Arrange to engage the necessary engineering plans together with Certificate of Compliance-Design
- Arrange to engage a suitable qualified Energy Rater, if required;
- Arrange to engage a geotechnical Engineer for a soil report, if required;
- Carrying out site inspections and attend to site meeting, if required;
- Checking of application for compliance with the Building Act 1993 and Building Regulations 2006, Building Code of Australia 2016 and the relevant Australian Standards;;
- Issuing a building permit for the proposed building works;
- Carry out the mandatory Inspections;
- Issuing of an Occupancy Permit and/or the Certificate of Final Inspection upon completion;
- Provide copies of all relevant permit documents to applicant and the Council;
- General administrations, photocopying, postage/miscellaneous;

2. **Fees:**

3. **Disbursements/Exclusions:**

s 47G - business

IMPORTANT: PLEASE READ NOTES BELOW WHICH FORMS PART OF OUR PROFESSIONAL BUILDING CONSULTANTANCY SERVICES ENGAGEMENT.

NOTES:

- This quotation remains valid for a period of 30 days from the date of this letter.
- Fees exclude authority fees and charges that may arise due to liaison and obtaining reports/consents from such authorities.

s 47G - business

- No allowance has been made for attending to the Building Appeal Board, V.C.A.T., and Court.

s 47G - business

- **Please be advised that our building consultancy services will be commenced once this office receives an email and/or appointment letter with a full payment.**
- Staging of building work and variations to documentation during the course of or subsequent to Building Planning Permit issue which result in the need for re-checking and/or new Permits will be subject to an additional fee.

s 47G - business

We wish to assure you that we will make every endeavour to assist you with your obligations under the Building Act in a prompt, professional and efficient manner.

Thank you for your enquiry and I trust this estimate is satisfactory and I look forward to working with you on this and future projects. Should you wish to discuss this proposal further, please do not hesitate in contacting the undersigned.

Yours sincerely

s 47F - privacy

Manager – A.S. Building Consultants

From: [Marcus Grzechnik](#)
To: [Andrew Clegg](#); [Gillian Hirth](#)
Subject: RE: ARPANSA STORE Design Quotation and next steps. [SEC=UNCLASSIFIED]
Date: Monday, 26 February 2018 2:18:00 PM
Attachments: [ARPANSA - 619 Lower Plenty Road VIEWBANK.PDF](#)

Andrew/Gillian,

The quote below is valid for 30 days, which will be Friday 9th March. This happens to be the date of the EG.

I'll put together a paper to obtain approval to move ahead with the design anticipating that we will respond to the designer on Friday 9th whatever the decision.

Andrew, I'm happy if you want to let the consultants know when to expect our decision.

Thanks very much,

Marcus

From: Andrew Clegg
Sent: Tuesday, 20 February 2018 3:47 PM
To: Gillian Hirth <Gillian.Hirth@arpansa.gov.au>; Marcus Grzechnik <Marcus.Grzechnik@arpansa.gov.au>
Subject: FW: ARPANSA STORE Design Quotation and next steps. [SEC=UNCLASSIFIED]

s 47G - busin + GST plus permit costs.

AC

From: **s 47F - privacy**
Sent: Wednesday, 7 February 2018 3:52 PM
To: Andrew Clegg <andrew.clegg@arpansa.gov.au>
Subject: RE: ARPANSA STORE Design Quotation and next steps. [SEC=UNCLASSIFIED]

Hi Andrew

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Once again thank you for the invitation and we look forward to working with you on this and future projects.

As always happy to discuss and answer any questions.

Kind regards

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A. S. Building Consultants

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Cc:
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2pm Monday 5 Feb is fine, Adam will call you to discuss the design cost and etc.

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A. S. Building Consultants

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Subject:

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Regards

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Facilities Manager

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619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

Mobile 04 1864 5596

email

<mailto:andrewmailto:andrew.clegg@arpansa.gov.au>

<http://www.arpansa.gov.au>

From: Andrew Clegg

Sent: Friday, 12 January 2018 10:58 AM

To: s 47F - privacy

Cc: Marcus Grzechnik

<mailto:Marcus.Grzechnik@arpansa.gov.au>

Silvio Malfitana

<mailto:silvio.malfitana@arpansa.gov.au>

Subject: ARPANSA STORE Design Quotation and next steps.

[SEC=UNCLASSIFIED]

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Hi Adam,

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Monday 29/1/2018 to Monday 5/02/2018	– Adam Soreli development of building design quotation and construction “Order of Costs” (1 wk)
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This should reflect my notes but if there is a difference please let me know asap as we will now lock this in with our Executive and CEO.

Thanks again.

Regards

Andrew Clegg

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Facilities Manager

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Mobile 04 1864 5596

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Australian Institute of Building Surveyors



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Building Practitioner



building consultants

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7 February 2018

Andrew Clegg
Facilities Manager
ARPANSA
C/o 619 Lower Plenty Road
VIEWBANK VICTORIA 3084

Dear Andrew

Re: Alterations & additions to an existing waste storage area
At: No. 619 Lower Plenty Road VIEWBANK/YALLAMBIE

Thank you for the invitation to provide the fee proposal for our professional building surveying, building design, engineering and consultancy services.

I advise that our proposal is as follows:

1. **The service offered:**

- Consultation;
- Liaise and consulted with client, Draftsperson, engineers and Local Authority (Banyule Council);
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- Arrange to engage a draftsperson to prepare the working drawings;
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- Arrange to engage a suitable qualified Energy Rater, if required;
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- Checking of application for compliance with the Building Act 1993 and Building Regulations 2006, Building Code of Australia 2016 and the relevant Australian Standards;;
- Issuing a building permit for the proposed building works;
- Carry out the mandatory Inspections;
- Issuing of an Occupancy Permit and/or the Certificate of Final Inspection upon completion;
- Provide copies of all relevant permit documents to applicant and the Council;
- General administrations, photocopying, postage/miscellaneous;

2. **Fees:**

3. **Disbursements/Exclusions:**

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Yours sincerely

s 47F - privacy

Manager – A.S. Building Consultants

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From: [Andrew Clegg](#)
To: [Marcus Grzechnik](#)
Cc: [Rick Tinker](#); [Gillian Hirth](#)
Subject: RE: ARPANSA STORE Design Quotation and next steps. [SEC=UNCLASSIFIED]
Date: Friday, 9 March 2018 5:32:17 PM

Thanks,

PO generated and I missed Martin, however I left the paperwork on his desk for his review and signature.

AC

From: Marcus Grzechnik
Sent: Friday, 9 March 2018 1:30 PM
To: Andrew Clegg <andrew.clegg@arpansa.gov.au>
Cc: Rick Tinker <Rick.Tinker@arpansa.gov.au>; Gillian Hirth <Gillian.Hirth@arpansa.gov.au>
Subject: RE: ARPANSA STORE Design Quotation and next steps. [SEC=UNCLASSIFIED]

Andrew, we have approval to spend the money on the design.

It is most likely that we capture under a property cost centre and inform finance.

Marcus

From: Andrew Clegg
Sent: Tuesday, 27 February 2018 9:33 AM
To: **s 47F - privacy**
Cc: Marcus Grzechnik <Marcus.Grzechnik@arpansa.gov.au>
Subject: RE: ARPANSA STORE Design Quotation and next steps. [SEC=UNCLASSIFIED]

Hi **s 47F - privacy**

Hope you are well. Just as an update on progress at our end. Our next ARPANSA Executive Meeting is 9 March when project approval is expected to be formally endorsed. Once this occurs ARPANSA should be in a position to issue a Purchase Order for these works.

Talk soon

Regards

Andrew Clegg

Facilities Manager

Australian Radiation Protection and Nuclear Safety Agency

619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

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Mobile 04 1864 5596

email andrew.clegg@arpansa.gov.au

<http://www.arpansa.gov.au>

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Sent: Wednesday, 7 February 2018 3:52 PM
To: Andrew Clegg <andrew.clegg@arpansa.gov.au>
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Andrew Clegg
(ARPANSA available this week for any on site inspection or review of drawings (A3 Sets printed for your reference)

Monday 5/02/2018
building design quotation and construction "Order of Costs" to ARPANSA.

- s 47F - privacy submit

Monday 5/02/2018
Grzechnik meeting (Phone or in person) to clarify any aspects of design quote and order of costs with s 47F - privacy

Andrew Clegg / Marcus

Friday 9/02/2018
ARPANSA to Raise a PO if Design Quotation acceptable.

Proposed Date for

Friday 9/02/2018
Design Start Date (3

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week design window)	
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Project Proposal

ARPANSA-PM-TMP-001

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General details

General	
Project number (if known):	PRO-0025
Idea/Project name:	Waste Storage Area – Yallambie
Proposer/Project Manager:	Andrew Clegg
Project Owner:	Gillian Hirth
Section:	Radiation Protection Services
Start date:	18 September 2017
End date:	31 December 2018
Duration:	3 months

Description of the idea
<p>ARPANSA is cooperating with the University of Melbourne to remediate low-level radioactive contamination at one of its former premises – the Commonwealth Radium Laboratory.</p> <p>ARPANSA has the requirement to store at least 200 drums of low level radioactive waste that has been created as part of the legacy site remediation activity at the University of Melbourne.</p>

Other options considered – what is the perfect solution? what is the next best option? what would happen if we did nothing?
The perfect solution: We establish a new waste storage area within the Yallambie building footprint
The next best option: We transfer the waste to s 47G - business
Do nothing: Not an option

Objectives – something towards which work is to be directed, a strategic position to be attained, a purpose to be achieved, a result to be obtained, a project to be produced, or a service to be performed
To have all of ARPANSA low-level radioactive waste stored in facilities that meet International Best Practice.

Deliverables – a product, result or capability to perform a service that must proceed in order to complete a project

ARPANSA agreed, in principle, to fund a share of the costs of the remediation and to take responsibility for the radioactive waste generated by the remediation and store this in an approved Commonwealth licensed waste storage facility.

Deliverables include:

- s 47G - business
- ARPANSA has determined where the waste is to be stored:
 - o Plan A – storage at s 47G - business
 - o Plan B – storage in a new waste storage area in the Yallambie building.
- If Plan A,
- If Plan B, storage area is developed and area upgraded to accept waste (cost associated).
- Regulatory approvals for waste transfer are given
- Waste is transferred from Melbourne University to ARPANSA

Note – Price estimates are based on an initial design fee of s 47G - business to A.S. Building Consultants being a s 47G - business. Upon the project milestone of design completion an order of costs will be provided to ARPANSA via the building surveyor. This will provide a more accurate cost forecast prior to ARPANSA going to the market for pricing.

Estimated Financials – Project costing tool can be used at this point to assist with estimate

Revenue	\$ 0
less	\$
Labour	\$25,884
Suppliers	\$250,000 + GST Estimated
Surplus/(deficit)	\$224,116

Capital	\$250,000 Estimated
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External funding opportunities – is there a market for this product or service, is there an opportunity to submit a new policy proposal (NPP), would any other organisations be interested in collaborating with us?

No

Strategic alignment

Outcome

1. Protect the public, workers and the environment from the harmful effects of radiation

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How would this project deliver on the outcome selected? What are the benefits?

Under strategy 1.3 Mitigate the health and environmental risks to public, workers and the environment of the RHS Branch Plan for 2017-18 the following activity

'Melbourne University legacy site remediated and waste managed appropriately' is listed as a KRA.

How would you measure progress against this outcome?

Completion of the remediation activity and waste stored in a licensed storage facility that meets international best practice.

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From: [Andrew Clegg](#)
To: [\\$ARPANSA PMAG](#)
Cc: [Marcus Grzechnik](#); [Gillian Hirth](#)
Subject: ARPANSA-PM-TMP-001_Project Proposal - Waste Storage Area at Yallambie v 19032018
[SEC=UNCLASSIFIED]
Date: Monday, 19 March 2018 3:07:10 PM
Attachments: [ARPANSA-PM-TMP-001_Project Proposal - Waste Storage Area at Yallambie v 19032018.docx](#)

Dear PMAG,

Please find updated documentation associated with the proposed Yallambie waste storage area.

Regards

Andrew Clegg

Facilities Manager

Australian Radiation Protection and Nuclear Safety Agency

619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

Mobile 04 1864 5596

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<http://www.arpansa.gov.au>

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Project Proposal

ARPANSA-PM-TMP-001

General details

General	
Project number (if known):	
Idea/Project name:	New Waste Storage Area – Yallambie
Proposer/Project Manager:	Gillian Hirth
Project Owner:	Gillian Hirth
Section:	
Start date:	18 September 2017
End date:	31 December 2018
Duration:	

Description of the idea
<p>ARPANSA is cooperating with the University of Melbourne to remediate low-level radioactive contamination at one of its former premises – the Commonwealth Radium Laboratory.</p> <p>ARPANSA has the requirement to store at least 200 drums of low level radioactive waste that has been created as part of the legacy site remediation activity at the University of Melbourne.</p>

Other options considered – what is the perfect solution? what is the next best option? what would happen if we did nothing?
The perfect solution: We establish a new waste storage area within the Yallambie building footprint
The next best option: We transfer the waste to an existing 5.47E - operations Storage Facility who manage the waste on our behalf IAW an MoU
Do nothing: Not an option

Objectives – something towards which work is to be directed, a strategic position to be attained, a purpose to be achieved, a result to be obtained, a project to be produced, or a service to be performed
To have all of ARPANSA low-level radioactive waste stored in facilities that meet International Best Practice.

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Deliverables – a product, result or capability to perform a service that must proceed in order to complete a project

ARPANSA agreed, in principle, to fund a share of the costs of the remediation and to take responsibility for the radioactive waste generated by the remediation and store this in an approved Commonwealth licensed waste storage facility.

Deliverables include:

- MoU signed with Melbourne University
- ARPANSA has determined where the waste is to be stored:
 - o Plan A – storage at a b.47E - operations waste storage facility IAW an MoU.
 - o Plan B – storage in a new waste storage area in the Yallambie building.
- If Plan A,
- If Plan B, storage area is developed and area upgraded to accept waste (cost associated).
- Regulatory approvals for waste transfer are given
- Waste is transferred from Melbourne University to ARPANSA

Note – Price estimates are based on an initial design fee of \$24,140 + GST to A.S. Building Consultants being a nominal 10% assumption of construction costs. Upon the project milestone of design completion an order of costs will be provided to ARPANSA via the building surveyor. This will provide a more accurate cost forecast prior to ARPANSA going to the market for pricing.

Estimated Financials – Project costing tool can be used at this point to assist with estimate

Revenue	\$ 0
<i>less</i>	\$
Labour	\$25,884
Suppliers	\$250,000 + GST Estimated
Surplus/(deficit)	\$224,116

Capital | \$250,000 Estimated

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How would you measure progress against this outcome?

Completion of the remediation activity and waste stored in a licensed storage facility that meets international best practice.

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From: Andrew Clegg
To: [Marcus Grzechnik](#)
Subject: RE: Design PO for ARPANSA Waste Store [SEC=UNCLASSIFIED]
Date: Friday, 23 March 2018 11:04:00 AM

Hi Marcus,

s 47F will be coming back re timing to me Monday. Just as a FYI.

AC

From: Andrew Clegg
Sent: Monday, 19 March 2018 12:01 PM
To: s 47F - privacy
Cc: Marcus Grzechnik <Marcus.Grzechnik@arpansa.gov.au>
Subject: Design PO for ARPANSA Waste Store [SEC=UNCLASSIFIED]

Hi s 47F

As discussed, please find the ARPANSA PO for the design documentation and drawings to enable ARPANSA to go to tender for the building/construction stage.

I will ring you later today to discuss timing for the final construction design drawings that works with your program. Ideally I would like to see them completed to the time frame below. Please review and lets chat.

Monday 19/03/2018	Design Start Date (1 mobilise + 3 week design window)
Friday 13/04/2018	Design Milestone 1 – Drawings/Documentation for Tender + the construction “Order of Costs” issued by Adam Soreli to ARPANSA
Monday 16/04/2018	Design to continuing with refinements for Construction Issue Drawings – by Adam Soreli (3 week window)
Monday 16/04/2018	ARPANSA issue for Tender (3 wks AusTender)
Monday 7/05/2018	ARPANSA Tender Close
Monday 7/05/2018	Design Milestone 2 – Submission of Drawings/Documentation for Construction
Monday 21/05/2018	ARPANSA Tender Recommendation and Letter of Intent to Builder to initiate works

Regards

Andrew Clegg

Facilities Manager

Australian Radiation Protection and Nuclear Safety Agency

619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

Mobile 04 1864 5596

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