11 December 2020

Tatsiana Bandaruk
Senior Environmental Assessment Officer
Energy Assessments
Department of Planning, Industry and Environment
4 Parramatta Square, 12 Darcy Street
Parramatta NSW 2150

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Dear Tatsiana

Re: 17-326 Yanco Solar Farm (SSD-9515)

Thank you for your time on 27 October 2020 to discuss the approved Yanco Solar Farm. As discussed, the Proponent for the Yanco Solar Farm (ib vogt GmbH) wish to request staging of strategies, plans and the program of works as per Condition 3 of Schedule 4 of the Conditions of Consent (CoC).

Details of the proposed staging works and strategies are provided overleaf.

If you have any questions, please contact me, or Erwin Budde on (07) 3129 7604. I would be pleased to discuss this project with you further.

Yours sincerely,

Sarah Hillis
Senior Environmental Planner
(02) 6923 1562
NGH

Background

As detailed within Section 1.2.3 of the Environmental Impact Statement (EIS), works would be required at the existing Yanco TransGrid substation to support the approved Solar Farm. Works would involve the construction of a new 33kV switchbay, comprising of the following:

- Standard support structures.
- Footings.
- High Voltage equipment.
- Fitting and structure earthing.
- Conduits for 33 kV cabling and communications.
- Associated secondary system works including control, monitoring, and protection equipment.

The works would be restricted to the existing concrete hardstand at the existing Yanco Substation. Minor excavation or trenching works will be required for cabling within the hardstand area only (Figure 1).

Given the timeframes for deliverables of all relevant CoC and Management Plans, the Proponent wishes to stage the delivery of the required TransGrid works and close out CoC relevant only to those works.

Stage 1 Works

Stage 1 works will involve the construction of the new 33kV switchbay, as described above and below in The Proposal section. Works will be restricted to the existing concrete hardstand and existing access and does not include the construction of the external transmission line.

Stage 2 Works

Stage 2 works will involve the balance of works as described within the EIS, including:

- Single axis tracker photovoltaic solar panels mounted on steel frames over most of the site.
- Battery storage units to store energy on site (approximately 81 MW/57 MW rated capacity).
- Electrical cables and conduits.
- Inverter/transformer units.
- One site switching station (control room and switchgear) to connect the solar farm to a new underground or overhead powerline, including synchronous condenser, other associated structures, lightening protection masts, control and protection equipment.
- Communications tower.
- Site office, compound, parking, access tracks and perimeter fencing.
- Operations and maintenance buildings with associated car parking.
- Access points via Research Road.
- Internal access tracks.
- Lighting, CCTV system, security fencing.
- Vegetative screening.
- An overhead/underground 33kv electrical transmission line to connect the proposal to the Yanco Substation.
- Subdivision.

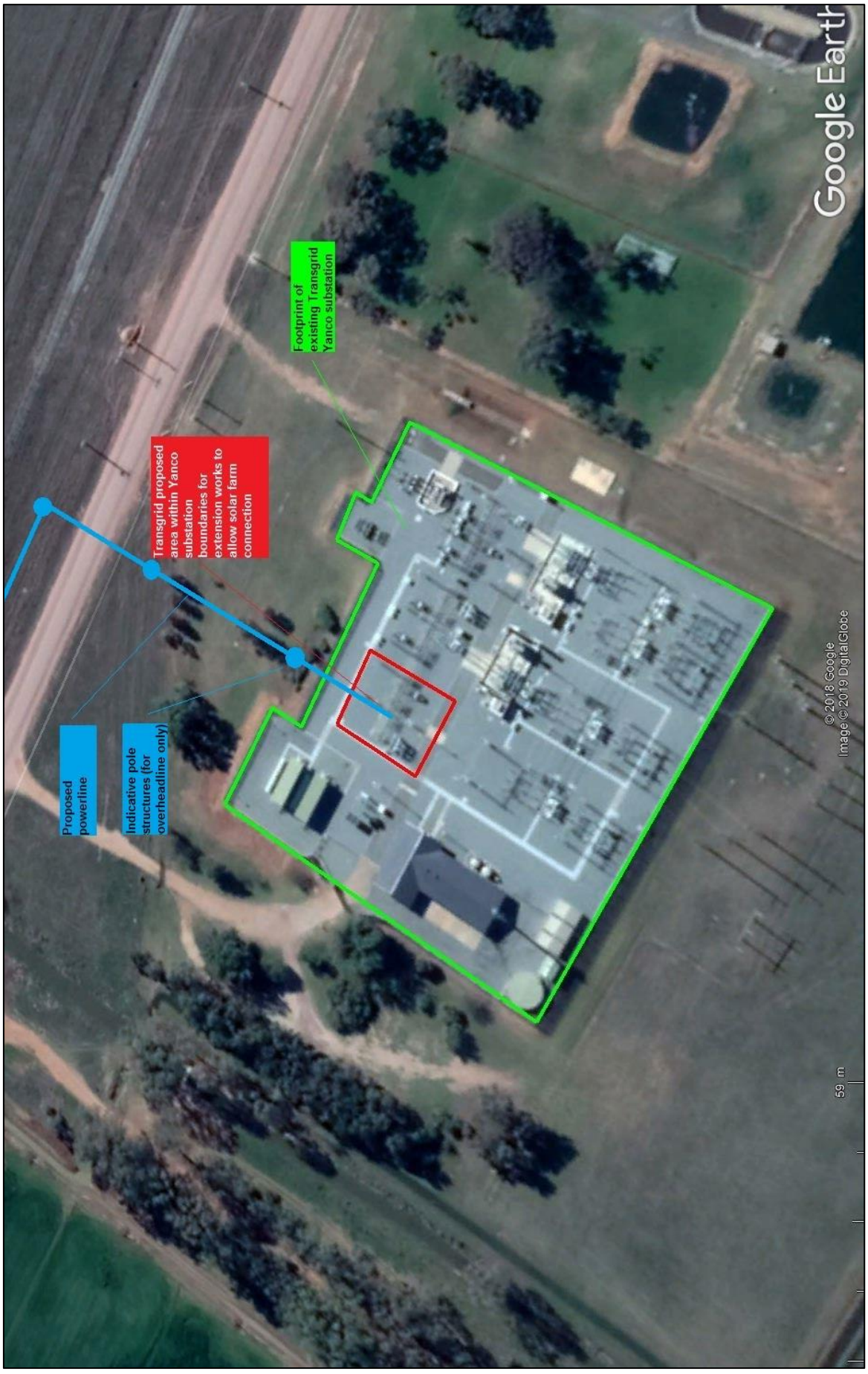

Figure 1 Proposed TransGrid substation works (excluding transmission line)

The proposal

As detailed above, it is proposed to stage the delivery of the required TransGrid works as Stage 1 Works, with the balance of works delivered as Stage 2.

Works as described by TransGrid are as follows:

Connection assets

33 kV switchbay at Yanco 132kV substation connected to the 33kV busbar (section 3 at Yanco Substation) consisting of:

- One 36kV manual disconnector
- One 36kV manual disconnector with manual earth switch
- One 72kV dead tank circuit breaker with associated current transformer
- One 33kV magnetic voltage transformer
- One 33kV cable sealing end
- Two 33kV bus support structures and footings
- One surge arrester

Upstream works

Associated control, protection and communications facilities between the two sites.

Connection work

a. Civil and Structural Work: design, supply and construction of works in accordance with the concept Yanco 132kV Substation general arrangement.
b. Electrical Work: design, supply and construction of work in accordance with the Yanco single line diagram and general arrangement including the following:
    - 1 x Manual Disconnector 36kV
    - 1 x Manual Disconnector with manual earth switch 36kV
    - 1 x Dead tank circuit breaker 72kV with associated current transformer
    - 1 x Voltage transformer
    - 1 x Three phase 36kV cable termination structure with surge arresters

c) Secondary Systems Work: Supply, installation, testing and commission of all protection, control, metering and communication systems but not limited to the following:
    - Installation of the following protection and metering equipment in Yanco Solar Farm:
        - IDMT overcurrent/ backup distance (2).
        - 33kV feeder Check and Revenue Metering.

d) Installation of the following control, protection and metering equipment in the existing Secondary System Building (SSB):
    - Connection line No.1, No.2 protection and 33kV bay control. The proposed location is cubicle 2-15in SSB No.2.
    - Revenue & Check metering cubicle (Full cubicle) for 33kV Yanco Solar Farm feeder, the proposed location is cubicle 2-08 in SSB No.2.
    - Disturbance Recorder cubicle (half cubicle utilised), the proposed location is cubicle 2-09T.
    - No.1 & No.2 Runback & Transfer Trip cubicle 1-17 in SSB No.1 –see items below for transfer trip &runback scheme. (Note, this panel will also be used in future for the Darlington Point S-connection when required).
    - 33kV Check and Revenue Metering (TX1 and TX2).
    - System Monitoring (disturbance recorder and quality of supply).

e) Modification to existing control and protection systems in the existing SSB, associated with the connection of a new switchbay to the 33kV bus section 3

- Modification of existing 33kV busbar protection for the connection of 33kV Yanco Solar Farm feeder.
- Modification of existing QoS cubicle 2-07T to include new QoS monitor for the Yanco SF connection.

f) Modification of existing 33kV busbar summation kiosk.

g) Modification to existing Substation Automation Systems (SAS) and HMI to include the 33kv Yanco Solar farm feeder bay.

h) Provision of a 132kV VT selection scheme to interface between Yanco AVR functionality and Yanco SF Power Plant Controller (PPC).

i) Installation of the following cables:
- 164m of 1.5mm^2 4c cable.
- 82m of 1.5mm^2 12c cable.
- 544m of 2.5mm^2 4c cable.
- 162m of 2.5mm^2 12c cable.
- 554m of 6mm^2 4c cable.
- 82m of 6mm^2 8c cable.
- 82m of 16mm^2 12c cable.
- 28m of 16mm^2 2c cable
- 164m of 16mm^2 4c cable

j) Modification to existing control and protection systems in the existing SSB, associated with the local transfer trip scheme.

k) Communications System:
- Two optical patch panels into the existing ODF rack.
- Two RAD2104 PDH multiplexers installed in a new rack in the existing Main Comm Room (MCR).

Staging Requirements

The proposed TransGrid works would require the following conditions to be closed out by the Proponent prior to construction commencing, as detailed in Table 1 below:

- Schedule 2:
  - CoC 7 – Structural adequacy.
- Schedule 4:
  - CoC 1 – Environmental Management Strategy.
  - CoC 3 – Updating and staging of strategies, plans or programs.
  - CoC 4 – Notification of Department.
  - CoC 5 – Final layout plans.
  - CoC 6 – Works as executed plans.

Table 1 Stage 1 works and compliance with CoC

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
Schedule 2 Administrative Conditions					
Obligation to minimise harm to the environment 1. In meeting the specific environmental performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, upgrading or decommissioning of the development.	Applicable throughout development	N/A	Construction Operation	Department of Planning, Industry and Environment (DPIE)	
Terms of consent 2. The Applicant must carry out the development: (a) generally in accordance with the EIS; and (b) in accordance with the conditions of this consent. 3. If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency. 4. The Applicant must comply with any requirement/s of the Secretary arising from the Department's assessment of: (a) any strategies, plans or correspondence that are submitted in accordance with this consent; (b) any reports, reviews or audits commissioned by the Department regarding compliance with this consent; and (c) the implementation of any actions or measures contained in these documents.	Applicable throughout development	N/A	Construction Operation	DPIE	
Limits on consent 5. Unless the Secretary agrees otherwise, the development must cease operations within 30 years of commencing operation of the development. In considering a request from the Applicant to continue the operation of the development, the Secretary is to consult with Council and consider the land use planning objectives applicable to the site at the time.	N/A	N/A		DPIE	The operation of the TransGrid substation and all proposed upgrade works will continue past the life of the Yanco Solar Farm
Upgrading of solar panels and ancillary infrastructure 6. The Applicant may upgrade the solar panels and ancillary infrastructure on site provided these upgrades remain within the approved development footprint of the site and in accordance with condition 5 of Schedule 2. Prior to carrying out any such upgrades, the Applicant must provide revised layout plans and project details of the development to the Secretary incorporating the proposed upgrades.	Applicable throughout development	Provision of updated plans	Prior to upgrades	DPIE	Any upgrades to the TransGrid substation relevant to the Yanco Solar Farm outside of that described within the EIS must be reported to DPIE
Structural adequacy 7. The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the Building Code of Australia.	Required	Provision of plans and certification	Prior to construction	DPIE	The Proponent for the Yanco Solar Farm will appoint the principal certifying authority and the issue of any required construction certificates
Demolition 8. The Applicant must ensure that all demolition work on site is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	Applicable throughout development	N/A	Construction Operation	DPIE	
Protection of public infrastructure 9. Unless the Applicant and the applicable authority agree otherwise, the Applicant must: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. This condition does not apply to the upgrade and maintenance of the road network, which is expressly provided for in the conditions of this consent.	Applicable throughout development	N/A	Construction Operation	DPIE	

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
Operation of plant and equipment 10. The Applicant must ensure that all plant and equipment used on site, or in connection with the development, is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Applicable throughout development	N/A	Construction Operation	DPIE	
Subdivision 11. The Applicant may subdivide the site as identified in Appendix 4 and in accordance with the requirements of the EP&A Act and EP&A Regulation.	N/A	N/A		DPIE	No subdivision for works within the TransGrid substation required
Community enhancement 12. Prior to commencing construction, unless the Secretary agrees otherwise, the Applicant must enter into a VPA with Council in accordance with: (a) Division 7.1 of Part 7 of the EP&A Act; and (b) the terms of the agreement between the Applicant and Leeton Shire Council identified in Appendix 3. In the event of a dispute, either party may refer the matter to the Secretary for resolution.	N/A	N/A		DPIE	The Proponent for the Yanco Solar Farm will be entering into a VPA with Leeton Shire Council
Schedule 3 Environmental Conditions – General					
BATTERIES – Battery storage restrictions 1. The battery storage facility or systems associated with the development must not exceed a total delivery capacity of 81 MW.	N/A	N/A		DPIE	Battery storage not a requirement of works within the TransGrid substation
TRANSPORT – Over-dimensional and heavy vehicle restrictions 2. The Applicant must ensure that the: (a) development does not generate more than: • 36 heavy vehicle movements a day during construction, upgrading and decommissioning; • 2 over-dimensional vehicle movements during construction, upgrading and decommissioning; • 2 heavy vehicle movements a day during operations; on the public road network; (b) length of any vehicles (excluding over-dimensional vehicles) used for the development does not exceed 19 metres, unless the Secretary agrees otherwise. 3. The Applicant must keep accurate records of the number of over-dimensional and heavy vehicles entering or leaving the site each day for the duration of the project.	N/A	N/A		DPIE	TransGrid have indicated that they do not anticipate any special type of vehicle for the upgrade works, and the number of vehicles would be insignificant compared to the development of the Solar Farm. Equipment proposed does not require the use of any over-sized or over-mass vehicles, or larger transport. Requirements would be similar to everyday maintenance works.
Access route 4. Unless the Secretary agrees otherwise, all over-dimensional and heavy vehicles associated with: • the development must travel to and from the site via Irrigation Way, McQuillan Road, Racecourse Road, Poplar Avenue and Canal Street, Whitton Road, Toorak Road and Research Road and the approved site access points on Toorak Road and Research Road as identified in the figure in Appendix 1 and Appendix 5; and • the construction of the transmission line may also use Houghton Road.	Applicable throughout development	N/A	Construction Operation	DPIE	
Site access 5. All vehicles associated with the development must enter and exit the site via the approved site access locations on Toorak Road and Research Road, as identified in Appendix 1.	N/A	N/A		DPIE	Access to the Yanco Solar Farm via the approved site access locations not required
Road upgrades 6. Unless the Secretary agrees otherwise, prior to commencing construction the Applicant must construct the approved site access locations, as identified in Appendix 1, with a Rural Property Access type treatment to cater for the largest vehicle accessing the site.	N/A	N/A		DPIE	Upgrade to access to TransGrid substation not required.

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
These upgrades must comply with the Austroads Guide to Road Design (as amended by TfNSW supplements), and be carried out to the satisfaction of Council.					
Operating conditions 7. The Applicant must ensure: (a) the internal roads are constructed as all-weather roads; (b) there is sufficient parking on site for all vehicles, and no parking occurs on the public road network in the vicinity of the site; (c) the capacity of the existing roadside drainage network is not reduced; (d) all vehicles are loaded and unloaded on site, and enter and leave the site in a forward direction; (e) development-related vehicles leaving the site are in a clean condition to minimise dirt being tracked onto the sealed public road network.	N/A	N/A		DPIE	It is the responsibility of the Proponent for Yanco Solar Farm to ensure internal access and parking are suitable. No additional access or parking within the TransGrid substation required.
Traffic Management Plan 8. Prior to commencing the road upgrades identified in condition 6 of Schedule 3, the Applicant must prepare a Traffic Management Plan for the development in consultation with TfNSW and Council, and to the satisfaction of the Secretary in writing. This plan must include: (a) details of the transport route to be used for all development-related traffic; (b) details of the road upgrade works required by condition 6 of Schedule 3 of this consent; (c) a protocol for undertaking independent dilapidation surveys to assess the: • existing condition of McQuillan Road, Racecourse Road, Poplar Avenue, Canal Street, Toorak Road, the bridge connecting Canal Street to Toorak Road, and Research Road prior to construction, upgrading or decommissioning activities; and • condition of McQuillan Road, Racecourse Road, Poplar Avenue, Canal Street, Toorak Road, the bridge connecting Canal Street to Toorak Road, and Research Road following construction, upgrading or decommissioning activities; (d) a protocol for the repair of McQuillan Road, Racecourse Road, Poplar Avenue, Canal Street, Toorak Road, the bridge connecting Canal Street to Toorak Road, and Research Road if dilapidation surveys identify these roads to be damaged during construction, upgrading or decommissioning works; (e) details of the temporary on-site construction car park; (f) details of the measures that would be implemented to minimise traffic impacts during construction, upgrading or decommissioning activities, including: • temporary traffic controls, including detours and signage; • notifying the local community about development-related traffic impacts; • procedures for receiving and addressing complaints from the community about development-related traffic; • minimising potential for conflict with school buses, other road users and rail services as far as practicable (measures also required during operation of the project), including preventing queuing on the public road network; • minimising dirt tracked onto the public road network from development-related traffic; • scheduling of haulage vehicle movements to minimise convoy length or platoons; • responding to local climate conditions that may affect road safety such as fog, dust and wet weather; • responding to any emergency repair or maintenance requirements; and • a traffic management system for managing over-dimensional vehicles; (g) a driver's code of conduct that addresses: • travelling speeds; • driver fatigue; • procedures to ensure that drivers adhere to the designated transport routes; and • procedures to ensure that drivers implement safe driving practices; and (h) a program to ensure drivers working on the development receive suitable training on the code of conduct and any other relevant obligations under the Traffic Management Plan. Following the Secretary's approval, the Applicant must implement the Traffic Management Plan.	N/A	N/A		DPIE Leeton Shire Council Transport for NSW	TransGrid have indicated that they do not anticipate any special type of vehicle for the upgrade works, and the number of vehicles would be insignificant compared to the development of the Solar Farm. Equipment proposed does not require the use of any over-sized or over-mass vehicles, or larger transport. Requirements would be similar to everyday maintenance works. Road upgrades and dilapidation surveys are the responsibility of the Proponent for Yanco Solar Farm. No road upgrades are required for works within the TransGrid substation. Details of correspondence with TransGrid can be seen in Appendix A.
LANDSCAPING – Vegetation buffer	N/A	N/A		DPIE	Landscaping of the TransGrid substation is not a requirement

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
9. The Applicant must establish and maintain a vegetation buffer (landscape screening) as outlined in the figure in Appendix 1 to the satisfaction of the Secretary. The landscape screening must: (a) be planted prior to commencing operations; (b) be comprised of species that are endemic to the area; (c) minimise views from residences R04, R05 and R07 within 3 years of commencing operations (d) be designed and maintained in accordance with RFS's Planning for Bushfire Protection 2019 (or equivalent); and (e) be properly maintained with appropriate weed management, unless the Secretary agrees otherwise.					
Landscaping plan 10. Prior to commencing construction, the Applicant must prepare a detailed Landscaping Plan for the development in consultation with Council and residences R04, R05 and R7, to the satisfaction of the Secretary. This plan must include: (a) a description of measures that would be implemented to ensure that the vegetated buffer achieves the objectives of condition 9 (a) – (e) above; (b) a program to monitor and report on the effectiveness of these measures; and (c) details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for completion of actions. Following the Secretary's approval, the Applicant must implement the Landscaping Plan.	N/A	N/A		DPIE	Landscaping of the TransGrid substation is not a requirement
Land Management 11. The Applicant must maintain the agricultural land capability of the site, including: (a) establishing the ground cover of the site within 3 months following completion of any construction or upgrading; (b) properly maintaining the ground cover with appropriate perennial species and weed management; and (c) maintaining grazing within the development footprint, where practicable, unless the Secretary agrees otherwise in writing.	N/A	N/A		DPIE	Agricultural capability does not need to be maintained within the TransGrid substation.
BIODIVERSITY – Vegetation clearance 12. The Applicant must not clear any native vegetation or fauna habitat located outside the approved disturbance areas described in the EIS.	Applicable throughout development	N/A	Construction Operation	DPIE	No clearing is required for Stage 1.
Biodiversity Offsets 13. Prior to commencing construction, the Applicant must retire biodiversity credits of a number and class specified in Table 1 and Table 2 below, unless the Secretary agrees otherwise in writing. The retirement of these credits must be carried out in accordance with the NSW Biodiversity Offsets Scheme and can be achieved by: (a) acquiring or retiring 'biodiversity credits' within the meaning of the Biodiversity Conservation Act 2016; (b) making payments into an offset fund that has been developed by the NSW Government; or (c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the biodiversity offset scheme.	N/A	N/A		DPIE	Biodiversity Credits were not generated for works within the TransGrid substation. All works will be on the existing concrete/bitumen pad within the TransGrid substation. No ground disturbance for works are required.

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
Table 1: *Ecosystem Credit Requirements* ***Vegetation Community*** / ***PCT ID*** / ***Credits Required*** Forb-rich Speargrass – Windmill Grass – White Top grassland of the Riverina Bioregion / 44 / 9 Weeping Myall Woodland of the Riverina Bioregion and NSW South Western Slopes Bioregion / 26 / 2 ***Table 2:*** *Species Credit Requirements* ***Species Credit Species*** / ***Credits Required*** Small scurf pea (*Cullen parvum*) / 11					
Biodiversity Management Plan 14. Prior to commencing construction, the Applicant must prepare a Biodiversity Management Plan for the development in consultation with BCD, and to the satisfaction of the Secretary in writing. This plan must: (a) include a description of the measures that would be implemented for: • protecting vegetation and fauna habitat outside the approved disturbance areas; • managing the remnant vegetation and fauna habitat on site; • minimising clearing and avoiding unnecessary disturbance of vegetation that is associated with the construction and operation of the development; • minimising the impacts to fauna on site and implementing fauna management protocols; • rehabilitating and revegetating temporary disturbance areas with species that are endemic to the area; • maximising the salvage of vegetative and soil resources within the approved disturbance area for beneficial reuse in the enhancement or the rehabilitation of the site; and • controlling weeds, feral pests and pathogens; and (b) include details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for completion of actions. Following the Secretary's approval, the Applicant must implement the Biodiversity Management Plan.	N/A	N/A		DPIE	All works will be on the existing concrete/bitumen pad within the TransGrid substation. No ground disturbance for works are required.
AMENITY – Construction, upgrading and decommissioning hours 15. Unless the Secretary agrees otherwise, the Applicant may only undertake road upgrades, construction, upgrading or decommissioning activities between: (a) 7 am to 6 pm Monday to Friday; (b) 8 am to 1 pm Saturdays; and (c) at no time on Sundays and NSW public holidays. The following construction, upgrading or decommissioning activities may be undertaken outside these hours without the approval of the Secretary: • activities that are inaudible at non-associated receivers; • the delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; or • emergency work to avoid the loss of life, property and/or material harm to the environment.	Applicable throughout development	N/A	Construction	DPIE	
Noise 16. The Applicant must minimise the noise generated by any construction, upgrading or decommissioning activities on site in accordance with the best practice requirements outlined in the Interim Construction Noise Guideline (DECC, 2009), or its latest version.	Applicable throughout development	N/A	Construction	DPIE	
Dust 17. The Applicant must minimise dust generated by the development.	Applicable throughout development	N/A	Construction Operation	DPIE	

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
Visual 18. The Applicant must: (a) minimise the off-site visual impacts of the development, including the potential for any glare or reflection; (b) ensure the visual appearance of all ancillary infrastructure (including paint colours) blends in as far as possible with the surrounding landscape; and (c) not mount any advertising signs or logos on site, except where this is required for identification or safety purposes.	Applicable throughout development	N/A	Construction Operation	DPIE	
Lighting 19. The Applicant must: (a) minimise the off-site lighting impacts of the development; and (b) ensure that any external lighting associated with the development: • is installed as low intensity lighting (except where required for safety or emergency purposes); • does not shine above the horizontal; and • complies with Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting, or its latest version.	Applicable throughout development	N/A	Construction Operation	DPIE	
HERITAGE – Protection of heritage items 20. The Applicant must ensure the development does not cause any direct or indirect impacts on the Aboriginal heritage item identified in Table 1 of Appendix 6 or any Aboriginal heritage items located outside the approved development footprint.	Applicable throughout development	N/A	Construction	DPIE	
Discovery of human remains 21. If human remains are discovered on site, then all work surrounding the area must cease, and the area must be secured. The Applicant must notify the NSW Police and Heritage NSW as soon as possible following the discovery, and work must not recommence in the area until this is authorised by Heritage NSW.	Applicable throughout development	N/A	Construction	DPIE	
Chance Find Protocol 22. Prior to commencing construction, the Applicant must prepare a Chance Finds Protocol for the development in consultation with the Aboriginal stakeholders, and to the satisfaction of the Heritage NSW. Following the Heritage NSW's approval, the Applicant must implement the Chance Finds Protocol.	N/A	N/A		DPIE	All works will be on the existing concrete/bitumen pad within the TransGrid substation. No ground disturbance for works are required.
SOIL AND WATER – Water supply 23. The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of the development to match its available water supply.	Applicable throughout development	N/A	Construction Operation	DPIE	
Water pollution 24. The Applicant must ensure that the development does not cause any water pollution, as defined under Section 120 of the POEO Act.	Applicable throughout development	N/A	Construction Operation	DPIE	
Operating conditions 25. The Applicant must: (a) ensure the solar panels and ancillary infrastructure (including security fencing) are designed, constructed and maintained to reduce impacts on localised flooding and groundwater at the site; (b) ensure the solar panels and ancillary infrastructure (including security fencing) are designed, constructed and maintained to reduce impacts on surface water, flooding and groundwater at the site; (c) minimise any soil erosion associated with the construction, upgrading or decommissioning of the development in accordance with the relevant requirements in the Managing Urban Stormwater: Soils and Construction (Landcom, 2004) manual, or its latest version; (d) ensure the solar panels and ancillary infrastructure are designed, constructed and maintained to avoid causing any erosion on site; and	Applicable throughout development	N/A	Construction Operation	DPIE	

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
(e) ensure all works are undertaken in accordance with the Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018), or its latest version unless DPIE Water agrees otherwise.					
HAZARDS – Fire safety study 26. Prior to commencing construction of the battery storage facility, unless the Secretary agrees otherwise, the Applicant must prepare a Fire Safety Study for the development, in consultation with FRNSW and RFS and to the satisfaction of the Secretary in writing. The study must: (a) be consistent with the: • Department's Hazardous Industry Planning Advisory Paper No. 2 'Fire Safety Study' guideline; and • NSW Government's Best Practice Guidelines for Contaminated Water Retention and Treatment Systems; and (b) describe the final design of the battery storage facility. Following the Secretary's approval, the Applicant must implement the measures described in the Fire Safety Study.	N/A	N/A		DPIE	Battery storage not a requirement of works within the TransGrid substation
Storage and handling of dangerous goods 27. The Applicant must store and handle all chemicals, fuels and oils used on-site in accordance with: (a) the requirements of all relevant Australian Standards; and (b) the NSW EPA's Storing and Handling of Liquids: Environmental Protection – Participants Handbook if the chemicals are liquids. In the event of an inconsistency between the requirements listed from (a) to (b) above, the most stringent requirement must prevail to the extent of the inconsistency.	Applicable throughout development	N/A	Construction Operation	DPIE	
Operating conditions 28. The Applicant must: (a) the requirements of all relevant Australian Standards; and (b) the NSW EPA's Storing and Handling of Liquids: Environmental Protection – Participants Handbook if the chemicals are liquids. • includes at least a 10 metre defendable space around the perimeter of the solar array area and battery storage facility that permits unobstructed vehicle access; • manages the defendable space and solar array areas as an Asset Protection Zone; • complies with the relevant asset protection requirements in the RFS's Planning for Bushfire Protection 2019 (or equivalent) and Standards for Asset Protection Zones (including provision of water, electricity, gas and ancillary equipment); • is suitably equipped to respond to any fires on site including provision of a 20,000 litre water supply tank fitted with a 65 mm Storz fitting and a FRNSW compatible suction connection located adjacent to the internal access road; (c) assist the RFS and emergency services as much as practicable if there is a fire in the vicinity of the site; and (d) notify the relevant local emergency management committee following construction of the development, and prior to commencing operations.	Applicable throughout development	N/A	Construction Operation	DPIE	
Emergency Plan 29. Prior to commencing construction, the Applicant must develop and implement a comprehensive Emergency Plan and detailed emergency procedures for the development, to the satisfaction of FRNSW and the RFS. The Applicant must keep two copies of the plan on-site in a prominent position adjacent to the site entry points at all times. The plan must: (a) be consistent with the Department's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning' and RFS's Planning for Bushfire Protection 2019 (or equivalent); (b) identify the fire risks and hazards and detailed measures for the development to prevent or mitigate fires igniting; (c) list works that should not be carried out during a total fire ban; (d) include availability of fire suppression equipment, access and water; (e) include procedures for the storage and maintenance of any flammable materials;	N/A	N/A		FRNSW RFS NSW	TransGrid operate the existing Yanco 132 kV Substation under their own Emergency Response Manual (MNA-SUM-ERM-328). This Manual includes: • Relevant roles and responsibilities. • Initial response actions. • Site location and contact information. • Site asset information.

<table>
<tr><th>Condition of Consent</th><th>Stage 1 Applicable</th><th>Deliverable</th><th>Date Action Required</th><th>Relevant Approval Authority</th><th>Comments</th></tr>
<tr><td>(f) detail access provisions for emergency vehicles and contact details for both a primary and alternative site contact who may be reached 24/7 in the event of an emergency;
(g) include a figure showing site infrastructure, Asset Protection Zone and the fire fighting water supply;
(h) include location of hazards (physical, chemical and electrical) that may impact on fire fighting operations and procedures to manage identified hazards during fire fighting operations;
(i) include details of the location, management and maintenance of the Asset Protection Zone and who is responsible for the maintenance and management of the Asset Protection Zone;
(j) include bushfire emergency management planning;
(k) include details of the how RFS would be notified, and procedures that would be implemented, in the event that:
• there is a fire on-site or in the vicinity of the site;
• there are any activities on site that would have the potential to ignite surrounding vegetation; or
• there are any proposed activities to be carried out during a bushfire danger period.
Following approval, the Applicant must implement the Emergency Plan.</td><td></td><td></td><td></td><td></td><td>• Site specific information, hazards, and sensitivities.
• Site Drawings.
• Fire Pack.
• Forms and checklists.
• Site controller details.
A copy of the plan is provided in Appendix B.</td></tr>
<tr><td>WASTE
30. The Applicant must:
(a) minimise the waste generated by the development;
(b) classify all waste generated on site in accordance with the EPA's Waste Classification Guidelines 2014 (or its latest version);
(c) store and handle all waste on site in accordance with its classification;
(d) not receive or dispose of any waste on site; and
(e) remove all waste from the site as soon as practicable, and ensure it is sent to an appropriately licensed waste facility for disposal.</td><td>Applicable throughout development</td><td>N/A</td><td>Construction
Operation</td><td>DPIE</td><td></td></tr>
<tr><td>DECOMMISSIONING AND REHABILITATION
31. Within 18 months of the cessation of operations, unless the Secretary agrees otherwise, the Applicant must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must comply with the objectives in Table 3.
Table 3: Rehabilitation Objectives
<table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site</td><td>• Safe, stable and non-polluting
• Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use</td></tr><tr><td>Solar farm infrastructure</td><td>• To be decommissioned and removed, unless the Secretary agrees otherwise</td></tr><tr><td>Land use</td><td>• Restore land capability to pre-existing use (at least Class 3 Land Capability)</td></tr><tr><td>Community</td><td>• Ensure public safety at all times</td></tr></table></td><td>N/A</td><td>N/A</td><td></td><td>DPIE</td><td>The TransGrid substation will not cease operations after or as a result of decommissioning of the Yanco Solar Farm.</td></tr>
<tr><td colspan="6">Schedule 4 Environmental Management and Reporting</td></tr>
<tr><td>ENVIRONMENTAL MANAGEMENT – Environmental Management Strategy
1. Prior to commencing construction, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary in writing. This strategy must:
(a) provide the strategic framework for environmental management of the development;
(b) identify the statutory approvals that apply to the development;
(c) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
(d) describe the procedures that would be implemented to:
• keep the local community and relevant agencies informed about the operation and environmental performance of the development;
• receive, handle, respond to, and record complaints;</td><td>Required</td><td>Environmental Management Strategy</td><td>Prior to construction</td><td>DPIE</td><td>A work-specific Environmental Management Strategy relevant to Stage 1 within the TransGrid Substation detailing:
• Strategic framework.
• Statutory approvals.
• Roles and responsibilities.
• Environmental procedures.
• Reference to other relevant plans.</td></tr>
</table>

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
• resolve any disputes that may arise; • respond to any non-compliance; • respond to emergencies; and (e) include: • references to any plans approved under the conditions of this consent; and • a clear plan depicting all the monitoring to be carried out in relation to the development. Following the Secretary's approval, the Applicant must implement the Environmental Management Strategy.					• Monitoring requirements.
Review of strategies, plans and programs 2. The Applicant must: (a) update the strategies, plans or programs required under this consent to the satisfaction of the Secretary prior to carrying out any upgrading or decommissioning activities on site; and (b) review and, if necessary, revise the strategies, plans or programs required under this consent to the satisfaction of the Secretary within 1 month of the: • submission of an incident report under condition 7 of Schedule 4; • submission of an audit report under condition 9 of Schedule 4; or • any modification to the conditions of this consent.	Applicable throughout development	All applicable Management Plans	Prior to construction	DPIE	
Updating and staging of strategies, plans or programs 3. With the approval of the Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis. To ensure the strategies, plans or programs under the conditions of this consent are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of this consent.	Required	Provide staging request and plan	Prior to construction	DPIE	The Proponent will provide DPIE with a Staging Plan.
NOTIFICATIONS – Notification of Department 4. Prior to commencing the road upgrades, construction, operations, upgrading or decommissioning of the development or the cessation of operations, the Applicant must notify the Department via the Major Projects website portal of the date of commencement, or cessation, of the relevant phase. If any of these phases of the development are to be staged, then the Applicant must notify the Department in writing prior to commencing the relevant stage, and clearly identify the development that would be carried out during the relevant stage.	Required	Notify DPIE of relevant stage	Prior to construction	DPIE	The Proponent will notify DPIE on commencement of works within the TransGrid substation.
Final layout plans 5. Prior to commencing construction, the Applicant must submit detailed plans of the final layout of the development to the Department via the Major Projects website, including details on the siting of solar panels and ancillary infrastructure.	Required	Layout plans Included as part of EMS	Prior to construction	DPIE	The Proponent will supply DPIE with design plans, as provided by TransGrid.
Works as Executed Plans 6. Prior to commencing operations or following the upgrades of any solar panels or ancillary infrastructure, the Applicant must submit work as executed plans of the development to the Department via the Major Projects website.	Required	Works as Executed Plans	Prior to operation	DPIE	The Proponent will supply DPIE with Works as Executed plans, as provided by TransGrid.
Incident notification 7. The Department must be notified via the Major Projects website portal immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident.	Applicable throughout development	N/A	As required	DPIE	

Condition of Consent	Stage 1 Applicable	Deliverable	Date Action Required	Relevant Approval Authority	Comments
Non-compliance notification 8. The Department must be notified in writing via the Major Projects website portal within 7 days after the Applicant becomes aware of any non-compliance with the conditions of this consent. The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been done, or will be, undertaken to address the non-compliance.	Applicable throughout development	N/A	As required	DPIE	
INDEPENDENT ENVIRONMENTAL AUDIT 9. The Applicant must commission and pay the full cost of Independent Environmental Audits of the development. The audits must: (a) be prepared in accordance with the relevant Independent Audit Post Approval requirements (DPE 2020); (b) be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (c) be prepared, unless otherwise agreed with the Secretary: i. within 3 months of commencing construction; ii. within 3 months of commencement of operations; and iii. as directed by the Secretary; (d) be carried out in consultation with the relevant agencies; (e) assess whether the development complies with the relevant requirements in this consent, and any strategy, plan or program required under this consent; and (f) recommend appropriate measures or actions to improve the environmental performance of the development and any strategy, plan or program required under this consent. Within 3 months of commencing an Independent Environmental Audit, or unless otherwise agreed by the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations of the Independent Environmental Audit must be implemented to the satisfaction of the Secretary, confirmed in writing.	N/A	N/A		DPIE	Independent Environmental Audits will be conducted as part of Stage 2 of development. It is the responsibility of the Proponent of Yanco Solar Farm to commission the Independent Environmental Audit
ACCESS TO INFORMATION 10. The Applicant must: (a) make the following information publicly available on its website as relevant to the stage of the development: • the EIS; • the final layout plans for the development; • current statutory approvals for the development; • approved strategies, plans or programs required under the conditions of this consent; • the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged; • how complaints about the development can be made; • a complaints register; • compliance reports; • any independent environmental audit, and the Applicant's response to the recommendations in any audit; and • any other matter required by the Secretary; and (b) keep this information up to date.	Applicable throughout development	N/A	As required	DPIE	The Proponent of Yanco Solar Farm will ensure all information is made publicly available.

Appendix A – TransGrid Correspondence

Sarah Hillis

Subject: FW: Yanco - Meeting on Monday

originalItemMapiKe 0000000013E7F97E5A5515428A865F37507F0F170700CD18B52D8269774EB11E8152138FF75A00
000000010C0000CD18B52D8269774EB11E8152138FF75A0002D4CB9A030000:0000000038A1BB
1005E5101AA1BB08002B2A56C20000454D534D44422E444C4C00000000000000001B55FA20AA
6611CD9BC800AA002FC45A0C0000007361726168 2E68406E6768656E7669726F6E6D656E74616
C2E636F6D2E6175002F6F3D45786368616E67654C6162732F6F753D45786368616E67652041646
D696E6973747261746976652047726F7570202846594449424F484632335350444C54292F636E3
D526563697069656E74732F636E3D383835303862623562633464343461613965326130343338 3
536656130663532 2D73617261682E6800E94632F4520000000200000010000000730061007200610
0680020E00680040006E006700680065006E007600690072006F006E006D0065006E00740061006
C002E0063006F006D002E006100750000000000

From: Keith Lim <Keith.Lim@transgrid.com.au>
Sent: 13 November 2020 15:06
To: Thomas Strobel <Thomas.Strobel@ibvogt.com>
Cc: Zaid Khan <Zaid.Khan@transgrid.com.au>
Subject: RE: Yanco - Meeting on Monday

Hi Thomas,

At this time, we don't anticipate any special type of vehicles to be used for the scope at TransGrid. The number of vehicles would be insignificant as the equipment that we are planning to be installed would not include any HMV or large transports.

I have copied Zaid, who represents our Works team, and he and I have also discussed this in our conversations through the week.

Keith

From: Thomas Strobel <Thomas.Strobel@ibvogt.com>
Sent: Friday, 13 November 2020 15:01
To: Keith Lim <Keith.Lim@transgrid.com.au>; Damien Hughes <Damien.Hughes@transgrid.com.au>
Cc: James Durnall <James.Durnall@twobirds.com>; Justine Abel <Justine.Abel@twobirds.com>; Imran Sheikh <Imran.Sheikh@ibvogt.com>
Subject: RE: Yanco - Meeting on Monday

Hi Keith,

Excellent thanks a lot for the update. Also for providing the emergency response manual, this is much appreciated. We understand that there are no further documents available and we are happy to draft relevant documents in consultation with TransGrid.

One thing which would be very helpful in this regard, could you check internally on expected numbers and types of vehicles required for these works? Since the scope is comparable small and well defined at this stage, we hope this would be possible.

Thanks a lot for your support.

Best regards,
Thomas

Mit freundlichen Grüßen / Kind regards,

Thomas Strobel
Manager Network Connections

ib vogt GmbH
Level 6, 201 Kent Street
Sydney NSW 2000
Australia

Mobile +61 405 695643

thomas.strobel@ibvogt.com
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Sitz der Gesellschaft: Berlin, Amtsgericht Charlottenburg, HRB 86173
Geschäftsführung: Anton Milner, Carl von Braun, Carsten Stang

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Appendix B – TransGrid Emergency Response Manual

Yanco 132 kV Substation Emergency Response Manual: MNA-SUB-ERM-328

Summary

Provides a site specific Emergency Response Procedure that is aligned to the Corporate and Regional Emergency Management Plan (CREMP).

Document Control

Revision no:	12	**HP TRIM No:**	D2013/10921 MNA-SUB-ERM-328	**Approval/ Reviewed date:**	13 July 2020
Business process:	Manage Maintain Network Assets			**Document type:**	Maintenance Procedure
Process owner:	Head of Maintenance Programs				
Author:	Brad Wasow, Substations Officer				
Reviewers:	Ray Selmes, Technical Support Manager				
Approver:	Ian Davidson, Head of Maintenance Programs				

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Table of Contents

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1. Definitions

ERM	Emergency Response Manual
CREMP	Corporate and Regional Emergency Management Plan
EMT	Emergency Management Team (Group or Corporate)
GEMT	Group Emergency Management Team
CEMT	Corporate Emergency Management Team
AMC	Asset Monitoring Centre
Substation	All Substations or Switching Stations where TransGrid has responsibility for incident response

2. Roles and Responsibilities

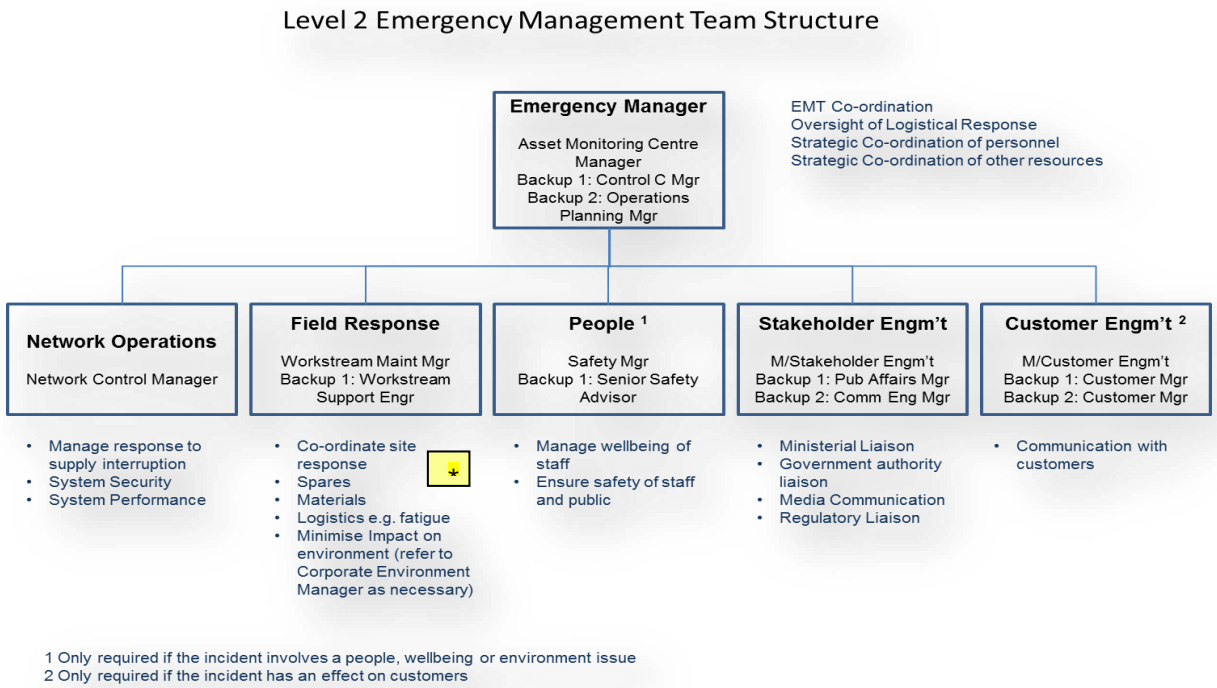
2.1 Incident Levels

Incident Level	Description	Management Responsibility
1	**Local Incidents** – minor nature, FEORs, Callouts, minor injuries or near miss, minor environmental incidents.	Relevant Maintenance Team, Works Leader and Maintenance Manager. Management is not within the scope of the CREMP.
2	**Group Emergency** – Prolonged loss of supply, serious injuries, reportable Environmental incident.	Group or Corporate Emergency Management Team (Site Controller Assigned)
3	**Corporate Emergency** – Significant or widespread loss of load, Major Bushfire events, Terrorist attack, fatality or ongoing risk of fatalities, Significant Environmental harm to world heritage areas.	
4	**Industry Emergency**- Impact goes well beyond TransGrid area of operations. Overall system safety and integrity at risk.	
5	**Government Emergency**- Potential impacts reach a point where Governement intervention is required.	

2.2 Group Emergency Management Team Structure

For incidents level 2 and above an Emergency Management Team is activated.

- Overall Emergency Management is carried out by the *Asset Monitoring Centre* (AMC).
- Field Response activities are managed by a *Works Delivery Manager*.
- Site activities are managed by the *Site Controller.*



* Site Controller

The TransGrid Site Controller during the Emergency/Incident shall be the first Authorised Person on site. The role of TransGrid Site Controller may be transferred in certain circumstances, e.g. a more qualified person takes over, and/or the incident is protracted and the TransGrid Site Controller needs to be relieved.

Site Controllers number one priority is safety to all on site.

2.3 Site Controller Responsibilities

- The site controller shall be identified by a high visibility vest with the words “Site Controller” clearly visible.
- Act as the main point of contact with both the GEMT/CEMT, and with the Emergency Services or other 3rd parties at the scene
- Check safety/welfare of staff & contractors and ensure ‘000’ called, if required
- Evacuate site/muster staff if required
- Secure the area and establish access control
- Check condition of affected assets
- Establish communications with GEMT and provide regular status reports
- Marshall resources required and provide response instructions

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- Act as liaison point with Emergency Services (who may take control of site) and provide interface with System Operations (e.g. to de-energise site)
- As instructed by GEMT:
  - mobilise resources to assist (eg spill containment/clean-up)
  - assess the need for technical advice, if required
  - liaise with authorities (eg EPA/SafeWork NSW); and manage local issues (eg liaison with neighbours/ community)

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3. Initial Response Actions

3.1 Immediate Actions

- Check for danger – Account for all personnel, evacuate if necessary.
- Contact Emergency Services - Fire, Ambulance, Police. Refer section 4 for contact numbers.
- Contact the Asset Monitoring Centre (if required)
    - Location
    - Site Controller
    - Confirm safety of personnel
    - Details of the emergency/incident
    - Proposed actions and requirements
- Identify Emergency Type (Safety/Environmental/Security) and follow response processes.
- Control and monitor access - delegate a gate person if practical.
- Traffic and crowd management - maintain access clearances for emergency services.

The Site Controller is responsible for providing safe access to emergency services and/or service providers dealing with the site response. All other inquiries such as media, EPA, SafeWork NSW, customers, neighbours, stakeholders etc. should be redirected to the EMT.

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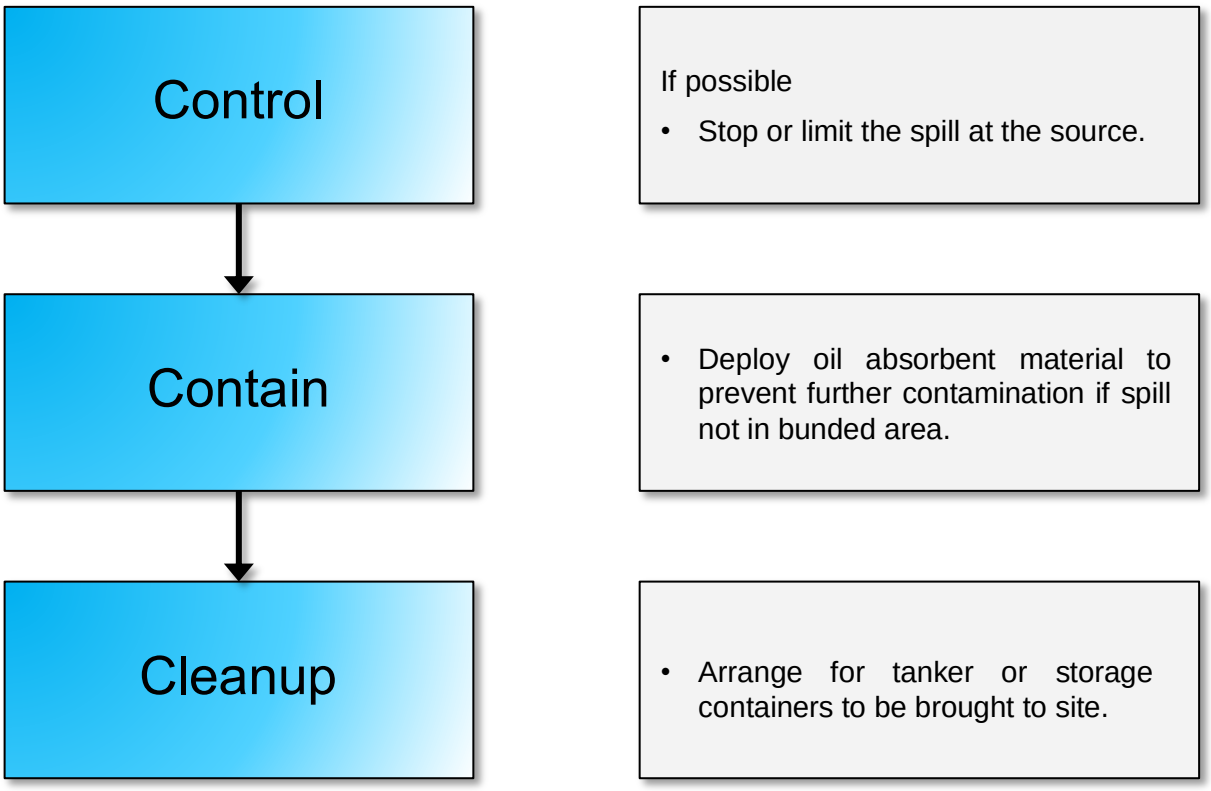
3.2 Oil Spill Response



3.2.1 Major Spill (e.g. Transformer)

Organise tanker for the removal of oil/water/fire water ASAP. Monitor discharge from the primary containment system (spill oil tank or bunds).

3.2.2 Minor Spill (e.g. CT or CVT)

Deploy oil spill equipment. Control the spread of oil by blocking flow paths if practicable.

3.3 Fire Response

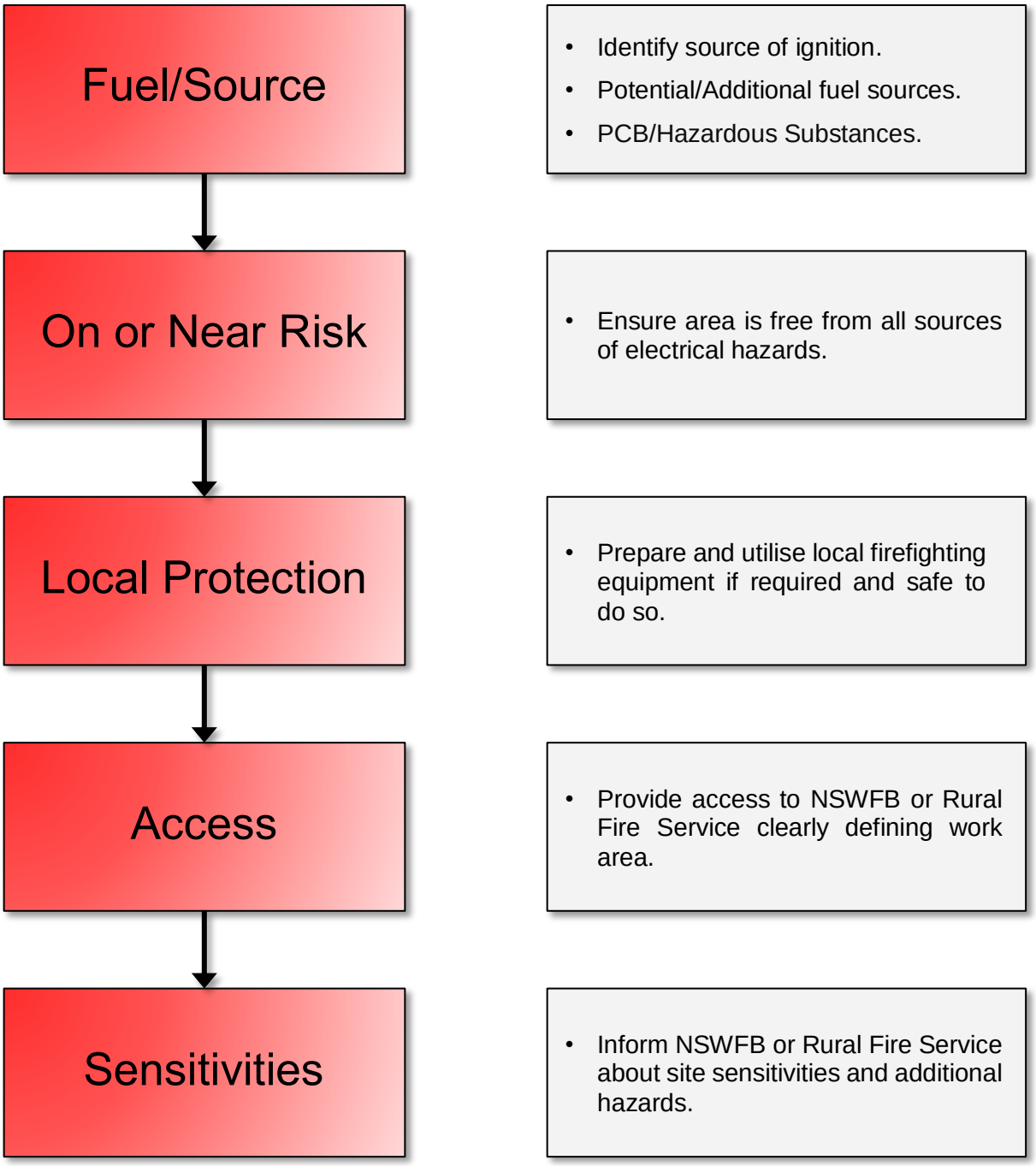
In situations involving an oil fire or any fire involving apparatus in the charge of the System Operator, the NSWFB shall not be given access to the site until all relevant equipment has been electrically isolated and earthed in accordance with TransGrid's Power System Safety Rules.

3.3.1 Major Fire

- Notify persons on site, evacuate if necessary.
- Review Oil Volumes (Section 5) to estimate potential fuel for the fire.
- Review lists of PCB equipment and Other Hazardous Substances or Materials (section 5)
- If safe to do so, make preparations to de-energise equipment (Authorised Persons Only).
- If safe to do so, prepare and utilize local firefighting equipment.
- Provide NSWFB Incident Commander with the Fire Pack (Section 8).
- Allow NSWFB access when safe to do so (equipment isolated and earthed, instructed persons warned and supervised).

3.3.2 Minor Fire

- Isolate electrical supply, if practical.
- Review Oil Volumes (Section 5) to estimate potential fuel for the fire.
- Review lists of PCB equipment and Other Hazardous Substances or Materials (section 5)
- If safe to do so, prepare and utilize local firefighting equipment.



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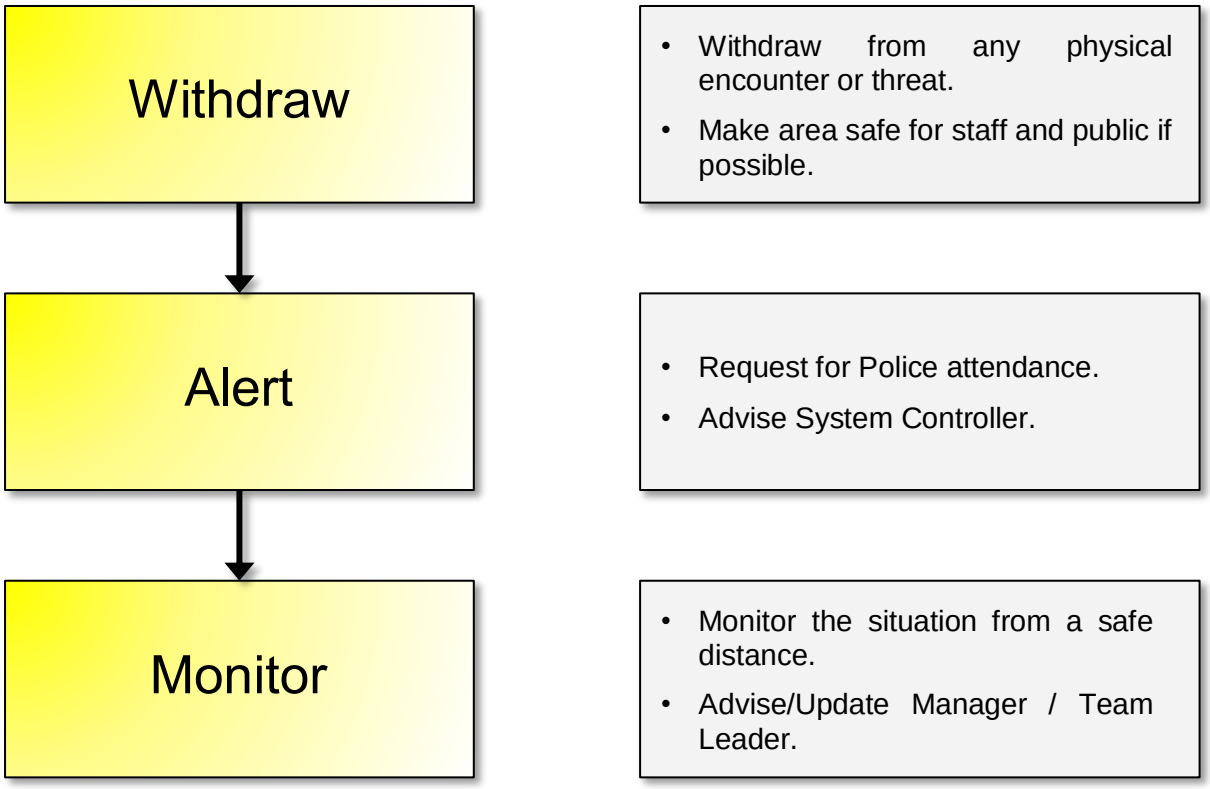
3.4 Security Threat Response



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4. Site Location and Contact Information

4.1 Contact Numbers

Emergency Contact Numbers

Contact	Contact Number	For
TransGrid		
TransGrid Emergency	555	All emergencies
Emergency Services		
NSW Fire Brigade	000	Fire
Ambulance	000	Injury
Police	000	As required
Rural Fire Service	1800 679 737	Fire
State Emergency Service	132 500	As required

Additional Numbers

Contact	Contact Number	For
Toxfree	1800 **HAZMAT** (1800 429 628) (24hr emergency line)	Spill Response Waste Oil Tanker Spill Oil Equipment
Cleanaway	1800 **SPILLS** (1800 774 557) (24hr emergency line)	Spill Response Waste Oil Tanker Spill Oil Equipment
Essential Energy	(02) 6122 3005	Shared site
Local Council - Leeton Shire Council	(02) 6953 0911	As Required
Water Authority – Leeton Shire Council	(02) 6953 0911 0428 268 679 (AH emergency line)	As Required

4.2 Emergency Information Poster

Emergency Information

Site:	Yanco 132 kV Substation
Address:	Houghton Road, Yanco
Location:	1km West of Railway Station, off Irrigation Way, adjacent to water treatment plant
Telephone:	02 6955 7280
Latitude:	-34.602264
Longitude:	146.396656

Ambulance, Fire, Police 000

Poisons Information 13 11 26

	Telstra	Network
All Emergencies	(02) 9620 0555	555
System Operations	(02) 8818 0621	948 – 621
Yass Area Centre	(02) 6226 9666	910 – 666
Wagga Area Centre	(02) 6922 0222	911 – 222

In an Emergency

Dial 555

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5. Site Asset Information

5.1 Oil Spill Equipment

The following oil spill equipment is located as shown on the Simplified Drainage Diagram;
Number of Standard Module Kits required at this site = **TWO**

Standard Module Kits

Equipment	Unit	Quantity
Oil absorbent pillows	Bale of 10	1
Oil absorbent sheets	Bale of 100	2
Oil absorbent sheet	44m roll	1
Granular oil absorber	Bag equivalent to 25kg granular	4

Tools and PPE

Equipment	Unit	Quantity
Wheeled bin	each	2
Star stakes	each	12
Rake	each	2
Shovel	each	2
PVC Gloves	pair	10
Disposable overalls	each	4
Face shield	each	2
Face shield holder	each	2
Overshoes	pair	4
Waders (XL)	each	2

Site Specific Equipment

Equipment	Unit	Quantity
Oil absorbent booms	Bale of 4	2 bales

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5.2 Insulating Oil - Significant Volumes

Equipment	Number	Capacity (L)	Total Volume (L)
No.1 & No.2 132kV/33kV Transformers	2	27,300	54,600
No. 4 Transformer 33kV/66kV (Owned by Essential Energy)	1	31,370	31,370
Aux Transformer	2	1,525	3,050
Spill Oil Tanks	Primary	45,000	45,000
Stored Oil (capacity, not actual volume)	-	-	-

5.3 Insulating Oil – Indicative Volumes

This table may be used to estimate oil spills from oil filled equipment

Equipment	500kV (L)	330kV (L)	132kV (L)	66kV and below (L)
Current Transformer (Live Head)	-	-	190	150
Current Transformer (Dead Tank)	2000	1200	400	250
Circuit Breaker (SOB)	-	300	400	150
Circuit Breaker (BOB)	-	-	-	1200
Magnetic Voltage Transformer	-	500	200	100
Capacitor Voltage Transformer	250	150	100	-

5.4 List of Equipment Containing PCB > 2ppm

Equipment	PIC Number	Voltage	PCB Level	Tested Date	Oil Volume (L)
No 4 TX 66 kV Transformer	ETA3307	66 kV	2	24/02/1999	31,370
841 Narrandera 66 kV Feeder - VT	EC00015169	66 kV	6.1	01/05/1992	100
No 1 Section 33 kV Busbar - VT	A07428/1	66 kV	3.6	24/07/1992	100
No 3 Section 33 kV Busbar - VT	A07428/2	66 kV	4.2	13/07/2011	100

5.5 Other Hazardous Substances or Materials

Description	Locations	Quantities	SDS Included* (Y/N)
Capacitor Banks	No.2 & No.3 Capacitor Banks contain Unknown Insulation material	Unknown	No
Battery Banks	No 1 and No 2 110V (NiCad)	90 cells each	No
Battery Banks	No 1 50V (NiCad)	39 cells	No
SF6	Contained within various HV Substation equipment	223kg	No

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Yanco Site Specific Environmental Issues

- **Heritage:** None identified
- **Water way:** Gogeldrie Branch waterway
- **Riparian (land adjacent to waterways):** None identified
- **Fauna:** None identified
- **Flora:** None identified
- **Vulnerable Land:** None identified
- **Acid Sulphate Soil:** None identified
- **Weeds:** None identified
- **Other:** None identified
- **Adjacent Land Use:** Rural
- **Nearest Noise Receptor:** Rural Resident approximately 300m South West of Substation

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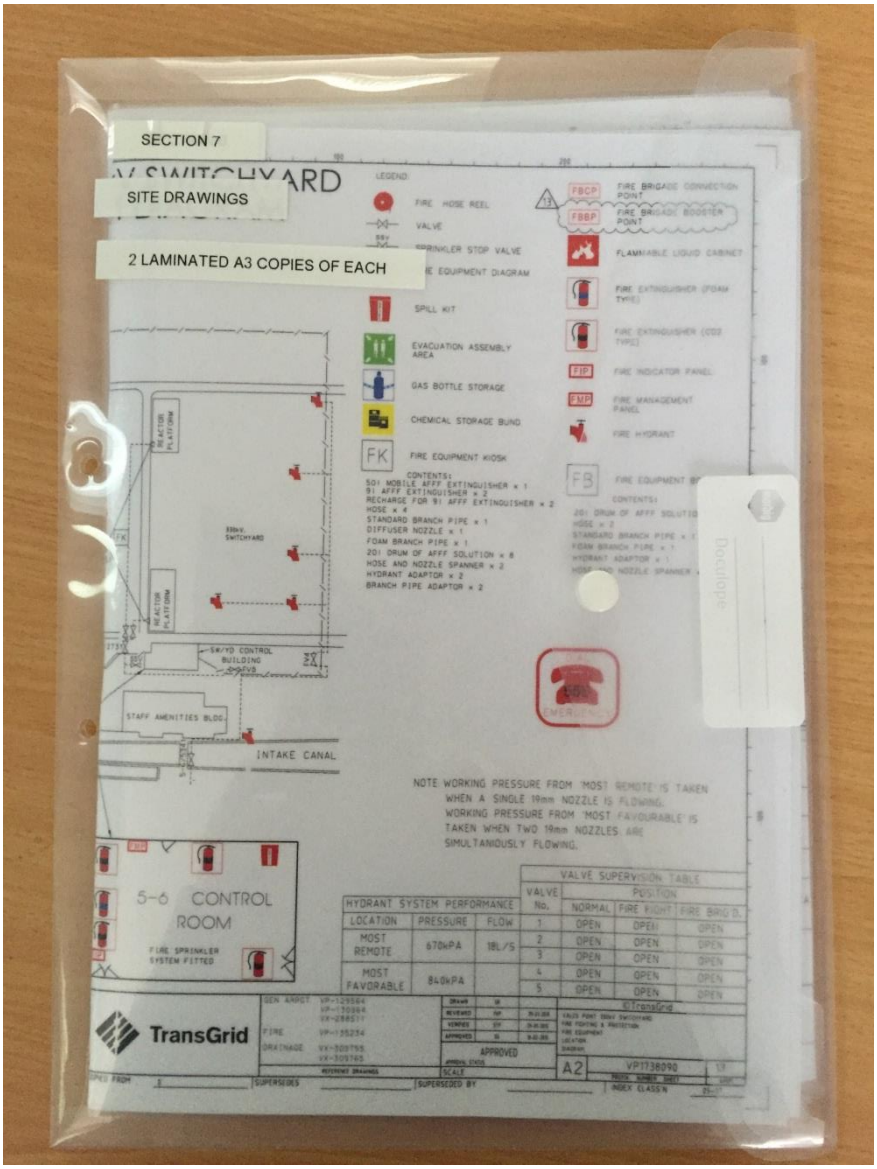
7. Site Drawings

Drawing Number	Description	Comments
YA2-075713	Site General Arrangement	
YA2-621544_00	Simplified Site Drainage Diagram	
YA2-833857	Fire Diagram	

One (1) laminated A3 copy of each drawing is to be displayed on the wall near the Control Desk in a prominent position.

Two (2) laminated A3 copies (folded to A4 size) of each drawing are to be located in this manual (next page) in a removable A4 document wallet. The removable wallet shall be marked ‘SECTION 7 SITE DRAWINGS 2 LAMINATED COPIES OF EACH’.



8. Fire Pack

The Fire Pack is a removable A4 document wallet which contains copies of parts of this manual. The Fire pack is to be provided to the NSWFB Incident Commander. The Fire Pack contents are to be as follows:

Document	Description
Copy of Section 4 of this Manual	Site Location and Contact Information
Copy of Section 5 of this Manual	Site Asset Information
Copy of Section 6 of this Manual	Site Specific Information, Hazards and Sensitivities
YA2-075713 A3 laminated copy	Site General Arrangement
YA2-621544_00 A3 laminated copy	Simplified Site Drainage Diagram
YA2-833857 A3 laminated copy	Fire Diagram

8.1 Handover Advice

The following details should be recorded when the Fire Pack is issued to the NSWFB Incident Commander:

Handover Advice		
TransGrid Site Controller	**Name:**	**Mobile:**
NSWFB Incident Commander	**Name:**	**Mobile:**
Time:	**Date:**	
Discussed Hazards	☐ Live Conductors ☐ PCB Contamination ☐ Hazardous Substances	☐ Environmental Issues ☐ Site Sensitivities ☐ Fire Water Issues
Other Information		

The Fire Pack documents are to be located in this manual (next page) in a removable A4 document wallet marked ‘SECTION 8 FIRE PACK’.

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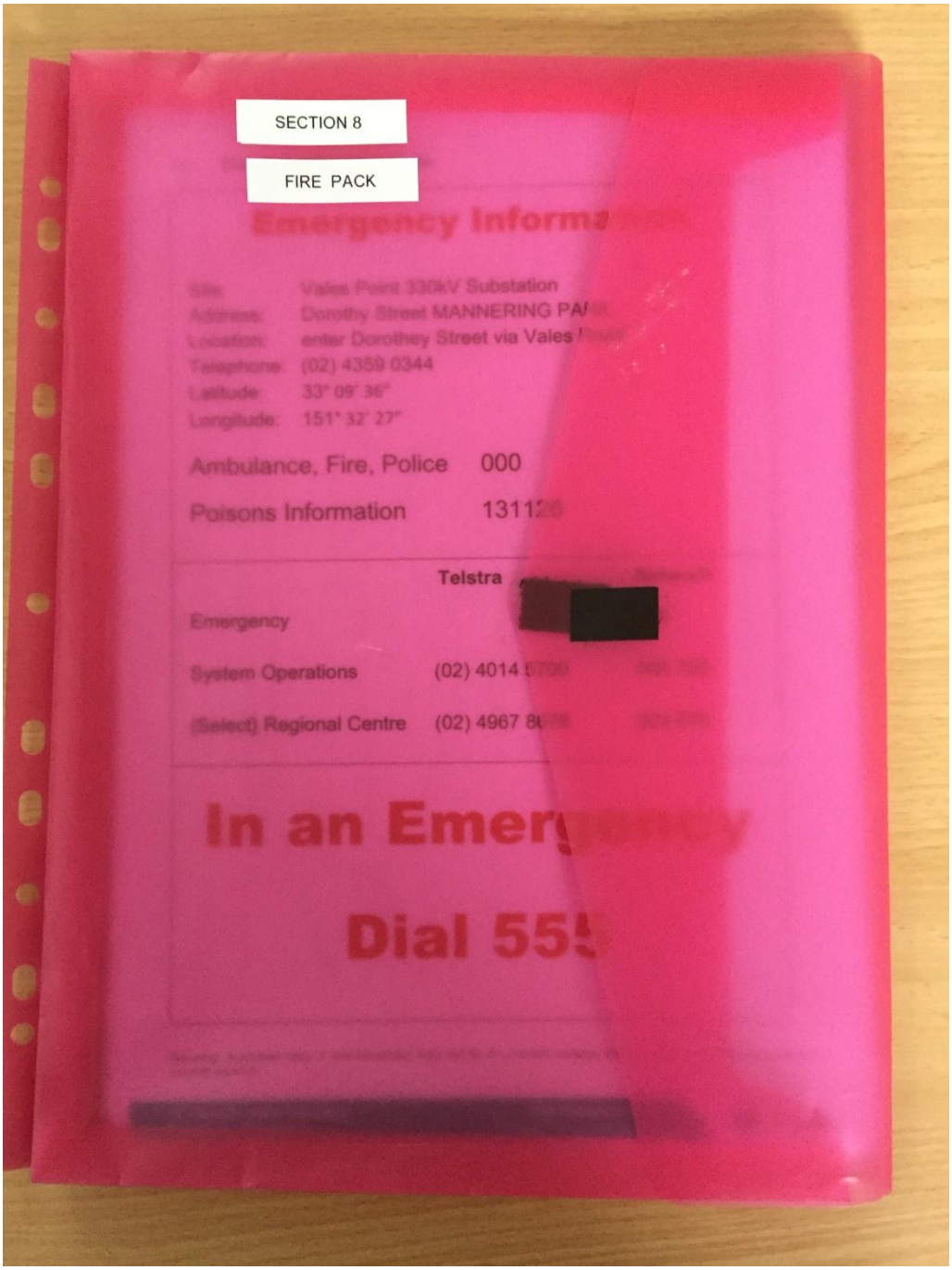

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9. Forms and Checksheets

This forms and checksheets are to be included in this section (next page) for use as required during an incident:

Form	TRIM Document Number
Emergency Services Incident Advice – MNA-SUB-FRM-078	D2017/03769
Emergency Response Protocol Checklist – MNA-SUB-CHK-077	D2017/03761

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9.1 Emergency Services Incident Advice Form

Emergency Services Incident Advice Form – MNA-SUB-FRM-078

TransGrid

Revision No. 0

Authorised by:	Richard Manderson	Issue date:	25 July 2017	HP TRIM No.	D2017/03769

- This form is for use when providing information to Emergency Services during and incident.
- Please refer to Substation Emergency Response Procedure.

Emergency Services Incident Advice		
Site		
TransGrid Site Controller	**Name:**	**Mobile:**
NSWFB Incident Commander	**Name:**	**Mobile:**
Plant Details		
Location onsite General Arrangement Drawing Attached Yes / No		
Oil Volume Involved		
Situation As At Time: Date:		
Known Hazards	☐ Live Conductors ☐ PCB Contamination ☐ Hazardous Substances	☐ Environmental Issues ☐ Site Sensitivities ☐ Fire Water Run Off Limits

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9.2 Emergency Response Protocol Checklist

Emergency Response Protocol Checklist – MNA-SUB-CHK-077

TransGrid

Revision No. 0

Authorised by:	Richard Manderson	Issue date:	**25 July 2017**	HP TRIM No.	**D2017/03761**

> This is a checklist showing the responsibilities of the TransGrid Site Controller during an incident.
> Please refer to Substation Emergency Response Procedure.

Responsibility	Details	Completed / Not Required
Nominate the TransGrid Site Controller	The TransGrid Site Controller during the Emergency/Incident shall be the first Authorised Person on site. The role of TransGrid Site Controller may be transferred under certain circumstances, eg; a more qualified person takes over, and/or the incident is protracted and the TransGrid Site Controller needs to be relieved.	
Communications	All communications regarding the conduct of operations during the incident are to be channelled through the TransGrid Site Controller and the NSWFB Incident Commander (where applicable).	
Advise Emergency Manager	Refer section 2.2 of the Substation Emergency Response Manual.	
Site Controller Vest	Wear the TransGrid approved YELLOW Safety vest, clearly labelled "Site Controller" whilst they are the nominated TransGrid Site Controller.	
Communicate with Emergency Services	Communicate information to the NSWFB Incident Commander from other TransGrid onsite field staff (including Management) and, on arrival, other Emergency Services personnel (RFS, Ambulance, Police).	
Complete Emergency Services Incident Advice	Complete the "Emergency Services Incident Advice" provided in the Emergency Response Manual and provide to NSWFB Incident Commander with as soon as practicable.	
Fire Pack	Provide NSWFB Incident Commander the "Fire Pack". (Pink Folder)	
Fire Hosing	Discuss with the NSWFB Incident Commander, or RFS officer, possible impacts of fire hosing. *In general, hosing shall limit the spread of the fire to other equipment or assets.*	

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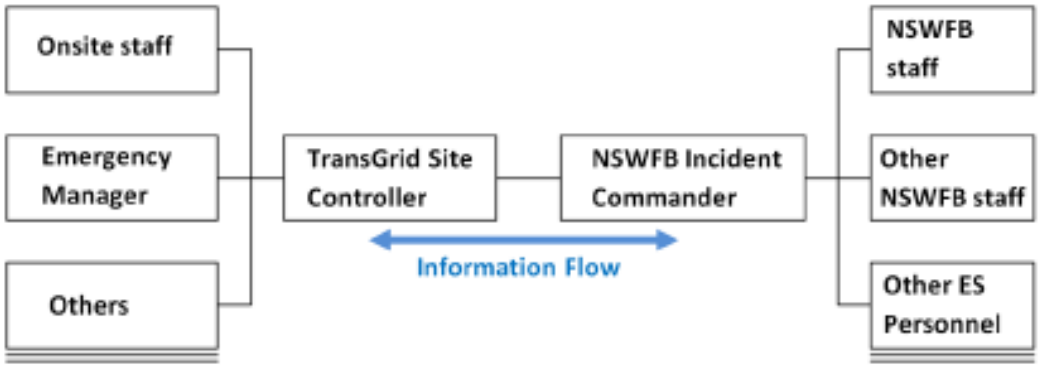
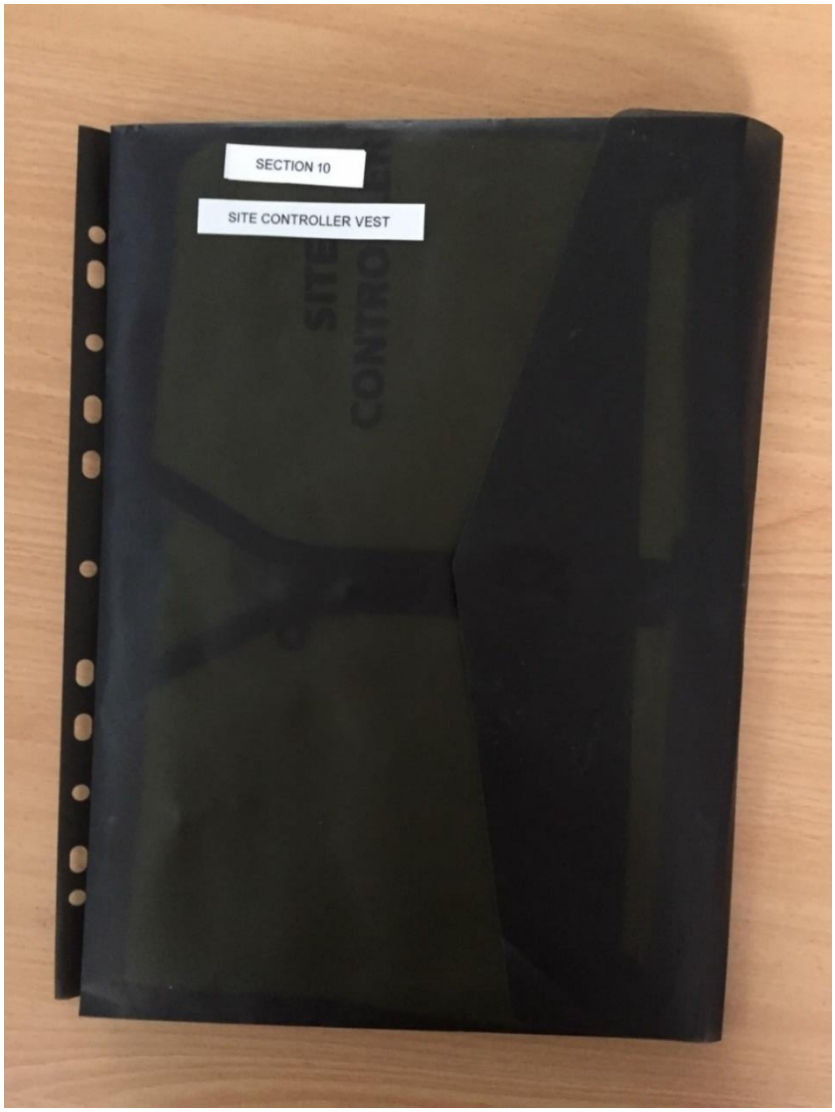
Responsibility	Details	Completed / Not Required
Site Access	Grant access to NSWFB and/or other emergency personnel to the incident site.	
Delegation	Can delegate TransGrid staff to areas of Emergency Response Actions if required.	
Change of TransGrid Site Controller	Inform the NSWFB Incident Commander of any change of personnel acting as TransGrid Site Controller.	
ARMS	Recording events in the TransGrid ARMS System.	



10. Site Controller Vest

The Site Controller Vest is to be located in this manual (next page) in a removable A4 document wallet marked 'SECTION 10 SITE CONTROLLER VEST'.



11. Change History

Revision no	Approved by	Amendment
12	Ian Davidson, Head of Maintenance Programs	Updated ERM to include new drainage diagram
11	Ian Davidson, Manager Maintenance Programs	• New revision, document number issued
	Mark Britton, Manager Maintenance	• Approved 10/6/2016 no document cumber issued

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