

SSD10313_C6_DPIE

22 December 2020



Department of Planning, Industry and Environment
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Paramatta NSW, 2150

Jemena Gas Networks (NSW) Ltd
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Attention: Wayne Jones

via Planning Portal (SSD10313)

Dear Wayne,

**Re: Western Sydney Green Gas Project (WSGGP) – SSD 10313
Schedule 4, Part C, Condition 6 – Commencement of Construction Phase**

Pursuant to condition C6, of the *Instrument of Consent*, Approval number SSD 10313, issued on 10 August 2020 to Jemena Gas Networks (NSW) Limited (**Jemena**), notice is hereby given to the NSW Department of Planning, Industry and Environment (**DPIE**) of Jemena's intention to commence the construction phase of the WSGGP on Wednesday 6 January 2021.

Jemena has appointed specialist construction contractor, WASCO Pty Ltd to undertake the construction phase of the works which will generally involve:

- Site establishment and mobilisation (including environmental controls);
- Civil and ground construction works;
- Pipeline trenching, assembly, installation and backfilling;
- Major equipment installation;
- Process piping, mechanical assembly and installation;
- Electrical and instrumentation works;
- Site restoration, levelling and grading; and
- Site demobilisation.

The WSGGP has been split into four specific phases of works consisting of construction, commissioning, operation and decommissioning. The current project timeline is presented below, as shown, construction works will commence in January 2020, with commissioning anticipated to commence in July 2021.

	Nov 20	Dec 20	Jan 20	Feb 20	Mar 20	Apr 20	May 21	Jun 21	Jul 21	Aug 21	Sep 21	Nov 21
Pre-Construction												
Phase 1 - Construction												
Phase 2 - Commissioning												
Phase 3 - Operation and Maintenance*												→

Notes

* 5 year operation in accordance with condition of approval (CoA) A8

Decommissioning phase to begin at the end of the Operation and Maintenance Phase

Grey – Float

Jemena notes that DPIE approval has been granted on the following post-approval consent conditions, whereby satisfying the requirements to commence construction.

Condition	Description	Reference
B1(a)	Construction Safety Study Report	Attachment A
B1(b)	HAZOP Study Report	Attachment B
B1(c)	Final Hazard Analysis Report	Attachment C
B1(d)	Fire Safety Study Report	Attachment D
B2	Safety and Operating Plan	Attachment E
B8	Traffic Management Plan	Attachment F
C1	Environmental Management Strategy	Attachment G
C6	Notification of commencement of Phase	This letter
C7	Detailed Plans of the Final Site Layout	Attachment H
C11	Make specified information publicly available on the project website.	Link

Please let me know there are any queries in relation to the contents of this letter, or requires any further clarification.

Yours sincerely,



Jarrod Irving
Project Manager – Western Sydney Green Gas Project
jarrod.irving@jemena.com.au

Attachment A – Construction Safety Study Approval
Attachment B – HAZOP Approval
Attachment C – Final Hazard Analysis Approval
Attachment D – Fire Safety Study Approval
Attachment E – Safety and Operating Plan Approval
Attachment F – Traffic Management Plan Approval
Attachment G – Environmental Management Strategy Approval
Attachment H – Final Site Layout

Attachment A – Construction Safety Study Approval



Planning,
Industry &
Environment

Mr Russell Brooks
Senior Approvals and Stakeholder Manager
Jemena Gas Networks (NSW) Ltd
Level 1, 567 Collins Street
Melbourne, VIC, 3000

16 November 2020

Dear Mr Brooks

Western Sydney Green Gas Project (SSD-10313) Construction Safety Study

I refer to the Construction Safety Study (CSS) submitted in accordance with Condition B1(a) of Schedule 3 of the Development Consent for the Western Sydney Green Gas Project (SSD-10313).

The Department has carefully reviewed the document and is satisfied that the CSS has been prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 7, 'Construction Safety', based substantially on the final design of the SSD for the scope described below.

It is understood that Jemena will construct all components described in the Preliminary Hazard Analysis (PHA – EIS Appendix C) except the following components:

1. the hydrogen refuelling station for vehicles along with its high-pressure hydrogen storage;
2. addition of one hydrogen fuel cell for electrical power generation; and
3. change of natural gas fuel supply to the microturbine generator set from secondary mains to gas bottles supplied by trucks. No hydrogen fuel will be utilised by the microturbine generator set.

Accordingly, the Planning Secretary has approved the Construction Safety Study (Revision 0, dated 8 October 2020) for the scope described above, subject to Jemena submitting a revised CCS if they wish to undertake excluded work components 1 to 3 identified above that is also consistent with the EIS and PHA. Modification of the Development Consent may be required for scopes of work outside the submitted EIS and PHA.

Please ensure that the approved plan is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Wayne Jones on 6575 3406.

Yours sincerely

A handwritten signature in black ink, appearing to be 'SOD'.

Stephen O'Donoghue
Director Resource Assessments
As nominee of the Planning Secretary

Attachment B – HAZOP Approval



Planning,
Industry &
Environment

Mr Russell Brooks
Senior Approvals and Stakeholder Manager
Jemena Gas Networks (NSW) Ltd
Level 1, 567 Collins Street
Melbourne, VIC, 3000

19/11/2020

Dear Mr Brooks

**Western Sydney Green Gas Project (SSD-10313)
Hazard and Operability Study**

I refer to the Hazard and Operability Study (HAZOP) which was submitted in accordance with Condition B1(b) of Schedule 3 of the Development Consent for the Western Sydney Green Gas Project (SSD-10313).

The Department has carefully reviewed the document and is satisfied that that it the HAZOP has been prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 8, HAZOP Guidelines', based substantially on the final design of the SSD for the scope described below.

It is understood that Jemena will construct all components described in the Preliminary Hazard Analysis (PHA – EIS Appendix C) except the following scopes:

1. the hydrogen refuelling station for vehicles along with its high-pressure hydrogen storage;
2. addition of one hydrogen fuel cell for electrical power generation; and
3. change of natural gas fuel supply to the microturbine generator set from secondary mains to gas bottles supplied by trucks. No hydrogen fuel will be utilised by the microturbine generator set.

Accordingly, the Planning Secretary has approved the Hazard and Operability Study (Revision 1, dated 17 August 2020) for the scope described above, subject to Jemena:

1. ensuring that all HAZOP actions are closed out by all responsible parties in a timely and appropriate manner; and
2. submitting a revised HAZOP if they wish to undertake excluded work scopes consistent with the EIS and PHA. Modification of the development consent may be required for scopes of work outside the submitted EIS and PHA.

Please ensure that the approved plan is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Wayne Jones on 6575 3406.

Yours sincerely

A handwritten signature in black ink, appearing to be 'SOD'.

Stephen O'Donoghue
Director
Resource Assessments
As nominee of the Planning Secretary

Attachment C – Final Hazard Analysis Approval



Planning,
Industry &
Environment

Mr Russell Brooks
Senior Approvals and Stakeholder Manager
Jemena Gas Networks (NSW) Ltd
Level 1, 567 Collins Street
Melbourne, VIC, 3000

19/11/2020

Dear Mr Brooks

Western Sydney Green Gas Project (SSD-10313) Final Hazard Analysis

I refer to the Final Hazard Analysis (FHA) submitted in accordance with Condition B1(c) of Schedule 3 of the Development Consent for the Western Sydney Green Gas Project (SSD-10313).

The Department has carefully reviewed the document and is satisfied that the FHA has been prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 6, 'Hazard Analysis', based substantially on the final design of the project for the scope described below.

It is understood that Jemena will construct all components described in the Preliminary Hazard Analysis (PHA – EIS Appendix C) except the following scopes:

1. the hydrogen refuelling station for vehicles along with its high-pressure hydrogen storage;
2. addition of one hydrogen fuel cell for electrical power generation; and
3. change of natural gas fuel supply to the microturbine generator set from secondary mains to gas bottles supplied by trucks. No hydrogen fuel will be utilised by the microturbine generator set.

Scopes 2 and 3 above are new components which are not clearly described in the EIS and PHA. These new components can alter the risk profile of the project. In this regard, Jemena has identified the hazards from these new components and conducted sufficient analysis to verify that potential consequences from these new components will not extend beyond the project boundary.

Accordingly, the Planning Secretary has approved the Final Hazard Analysis (Revision A, dated 3 September 2020) for the scope described above, subject to Jemena:

1. implementing all safeguards described in the FHA in a timely and appropriate manner; and
2. submitting to the Secretary, at least one month prior to commencement of commissioning of the SSD (similar timing to Condition B3), a statement:
 - a. specifying the maximum storage of natural gas in gas bottles within the project area;
 - b. specifying the storage and staging areas of gas bottles within the project area;
 - c. verifying that the arrangement specified in items 2a and 2b above complies:
 - i. with all standards and legislation described in FHA Section 2.7; and
 - ii. all other relevant Australian Standards not specified in FHA Section 2.7, including and not limited to Australian Standard 4332 The storage and handling of gases in cylinders; and
3. submitting a revised FHA if they wish to undertake excluded work scopes consistent with the EIS and PHA. Modification of the development consent may be required for scopes of work outside the submitted EIS and PHA

Please ensure that the approved plan is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Wayne Jones on 6575 3406.

Yours sincerely

A handwritten signature in black ink, appearing to be 'S O'Donoghue', written in a cursive style.

Stephen O'Donoghue
Director
Resource Assessments
As nominee of the Planning Secretary

Attachment D – Fire Safety Study Approval



Planning,
Industry &
Environment

Mr Russell Brooks
Senior Approvals and Stakeholder Manager
Jemena Gas Networks (NSW) Ltd
Level 1, 567 Collins Street
Melbourne, VIC, 3000

27/11/2020

Dear Mr/ Brooks

Western Sydney Green Gas Project (SSD-10313) Fire Safety Study

I refer to the Fire Safety Study (FSS) submitted in accordance with Condition B1(d) of Schedule 3 of the Development Consent for the Western Sydney Green Gas Project (SSD-10313).

The Department has carefully reviewed the document and is satisfied that the FSS has been prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 2, 'Fire Safety Study Guidelines' and the New South Wales Government's 'Best Practice Guidelines for Contaminated Water Retention and Treatment Systems', based substantially on the final design of the SSD for the scope described below.

It is understood that Jemena will construct all components described in the Preliminary Hazard Analysis (PHA – EIS Appendix C) except the following:

1. the hydrogen refuelling station for vehicles along with its high-pressure hydrogen storage;
2. addition of one hydrogen fuel cell for electrical power generation; and
3. change of natural gas fuel supply to the microturbine generator set from secondary mains to gas bottles supplied by trucks. No hydrogen fuel will be utilised by the microturbine generator set.

The Department understands that the FSS was submitted to FRNSW on 22 September 2020 and Jemena are still awaiting a response. If advice is received from FRNSW this should be forwarded to the Department and further revisions to the FSS may be requested.

The Department noted that Item 3 above is excluded from the FSS scope. Accordingly, the Planning Secretary has approved the Fire Safety Study (Revision A, dated 14 September 2020) for the scope described above except Item 3 above, subject to Jemena:

1. implementing all FSS recommendations in a timely and appropriate manner;
2. submitting to the Planning Secretary, at least one month prior to commencement of commissioning of the Project (similar timing to Condition B3), a revised FSS incorporating all recommendations from FRNSW (if received);
3. implementing all FRNSW recommendations in a timely and appropriate manner; and
4. submitting a revised FSS if Jemena intends to:
 - construct the hydrogen refuelling station for vehicles along with its high-pressure hydrogen storage;
 - connect the microturbine generator set to any source of hydrogen or the secondary mains; or

- connect the microturbine generator set to any source of compressed natural gas (CNG) due to FSS scope exclusion

Please ensure that the approved FSS is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Wayne Jones on 6575 3406.

Yours sincerely

A handwritten signature in black ink, appearing to be 'S O'Donoghue', written in a cursive style.

Stephen O'Donoghue
Director
Resource Assessments
As nominee of the Planning Secretary

Attachment E – Safety and Operating Plan Approval



Planning,
Industry &
Environment

Our ref: SF20/22895

Mr Wayne Jones
Team Leader – Post Approval
Energy, Industry and Compliance
Planning and Assessment
DPIE

Email wayne.jones@planning.nsw.gov.au

Dear Mr Jones

Western Sydney Green Gas Project (SSD10313)

Safety and Operating Plan

Thank you for providing the additional information requested of Jemena in relation to the Safety and Operating Plan under the development consent conditions for the Western Sydney Green Gas Project.

The Gas Regulatory team has reviewed the additional information provided and is satisfied that Jemena now meets the requirements of the development consent condition B2 for the preparation of a revised Safety and Operating Plan for the assets and equipment located within the development footprint.

The Gas Regulatory team will continue to work with Jemena through the development of the project to ensure all requirements of the *Gas Supply Act 1996* can be met.

Should you have any questions in relation to this matter, please contact Mr Warren Woodhouse, Senior Technical Advisor (Gas Networks and Pipelines), at the Department on 02 8275 1932.

Yours sincerely

A handwritten signature in black ink that reads 'K. Staggs'.

Kathy Staggs
Manager, Energy Networks
Energy, Climate Change & Sustainability

11 November 2020

Attachment F – Traffic Management Plan Approval



Planning,
Industry &
Environment

Mr Russell Brooks
Senior Approvals and Stakeholder Manager
Jemena Gas Networks (NSW) Ltd
Level 1, 567 Collins Street
Melbourne, VIC, 3000

27/11/2020

Dear Mr Brooks

Western Sydney Green Gas Project (SSD-10313)
Traffic Management Plan

I refer to the Traffic Management Plan submitted in accordance with Condition B8 of Schedule 3 of the Development Consent for the Western Sydney Green Gas Project (SSD-10313).

The Department has carefully reviewed the document and is satisfied it meets the requirements of the relevant Conditions of Consent.

Accordingly, the Planning Secretary has approved the Traffic Management Plan (Revision 3, dated 10 November 2020). Please ensure that the approved plan is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Wayne Jones on 6575 3406.

Yours sincerely

A handwritten signature in black ink, appearing to be 'S O'Donoghue'.

Stephen O'Donoghue
Director
Resource Assessments
As nominee of the Planning Secretary

Attachment G – Environmental Management Strategy Approval



Planning,
Industry &
Environment

Mr Russell Brooks
Senior Approvals and Stakeholder Manager
Jemena Gas Networks (NSW) Ltd
Level 1, 567 Collins Street
Melbourne, VIC, 3000

27/11/2020

Dear Mr Brooks

Western Sydney Green Gas Project (SSD-10313) Environmental Management Strategy

I refer to the Environmental Management Strategy submitted in accordance with Condition C1 of Schedule 3 of the Development Consent for the Western Sydney Green Gas Project (SSD-10313).

The Department has carefully reviewed the document and is satisfied it meets the requirements of the relevant Conditions of Consent.

Accordingly, the Planning Secretary has approved the Environmental Management Strategy (Revision 1, dated 12 November 2020). Please ensure that the approved plan is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Wayne Jones on 6575 3406.

Yours sincerely

A handwritten signature in black ink, appearing to be 'S O'Donoghue'.

Stephen O'Donoghue
Director
Resource Assessments
As nominee of the Planning Secretary

Attachment H – Site Layout

