

Our ref: Julius Avenue Data Centre (SSD-80018208)

Matthew Cox
Project Director
ISPT PTY LTD
Level 5, 24 York Street
Sydney NSW 2000

20 February 2025

Subject: Planning Secretary's Environmental Assessment Requirements – Industry Specific

Dear Mr Cox

Please find attached a copy of the Planning Secretary's environmental assessment requirements (SEARs) for the preparation of an Environmental Impact Statement (EIS) to accompany the State significant development application (DA) for the Julius Avenue Data Centre (SSD-80018208).

Based on the information provided in your application, industry-specific SEARs have been issued for your project.

Please contact the Department of Planning, Housing and Infrastructure (the Department) as soon as possible if your project changes. If the changes are significant, a scoping report may be required and the SEARs may need to be re-issued. The Department may also need to consult with public authorities in accordance with Part 8 of the Environmental Planning and Assessment Regulation 2021 (EP&A Regulation)

If required, the Planning Secretary may modify your SEARs to ensure the environmental assessment of the project covers all relevant matters and is consistent with contemporary assessment practice.

Your SEARs will expire two years from the date of issue (or the date they were last modified) unless the Planning Secretary has granted an extension. If you would like to seek an extension, you should contact the Department at least three months prior to the expiry date.

If your application is not submitted within two years (or by the agreed extension date), you will need to make a new application for SEARs to progress your project.

Additional assessment requirements

The Department has identified assessment requirements additional to those attached. These requirements, in addition to the industry-specific SEARs, are provided below and should be taken to be the collective SEARs for the project.

- Statutory and strategic - The EIS must assess the consistency of the development with the principles, objectives and provisions identified in the Macquarie Park Design Guide.
- Design options analysis - The EIS must identify design options considered during an iterative process and demonstrate the proposed development has been optimised to provide an integrated built-form design and to minimise amenity impacts by having regard to the relevant evaluation criteria in the Macquarie Park Design Guide and the Government Architect's Better Placed and Greener Places design guides.
- Hazards and risk - The EIS must demonstrate the relevant aspects of the *FM Global Property Loss Prevention Data Sheet 5-32 - Data Centres and Related Facilities* have been considered and could be implemented as part of the development. It must also demonstrate the development would comply with the relevant aspects of the following standards:
 - AS/NZS 4681 - Storage and handling of Class 9 (miscellaneous) dangerous goods and articles
 - AS IEC 62619 - Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications
 - AS 1940 - Storage and handling of flammable and combustible liquids.
- Plant and equipment selection - The EIS must:
 - include a comprehensive options analysis of all commercially available cooling and back-up power systems
 - provide a detailed overview of the proposed data hall cooling system including number and details of associated plant and equipment, and the energy and water demands of the proposed data hall cooling system
 - provide demonstration the development can achieve a NABERS 3 stars energy rating or higher, including the Power Usage Effectiveness (PUE) calculations of plant and equipment required for the operation of a data centre.
- Operational noise - The EIS must include an operational noise assessment, which:
 - provide details of noise monitoring survey, background noise levels and amenity noise levels at the potentially most-affected residential receptors (i.e. not necessarily the nearest residential receptor)

- include details of manufacturer specifications for plant and equipment and noise source inventory (demonstrating worst-case modelling of plant and equipment for each assessment period, including testing of any back-up power system and critical power failure scenario)
 - assess the effect of the development on neighbouring sites within the Macquarie Park Corridor Precinct, particularly at the nearby key sites along Julius Avenue
 - evaluate data centre and substation operational noise for any potential annoying noise characteristics such as tonality and dominant low-frequency content.
- Urban heat island effect – The EIS must evaluate the impact of heat rejection on habitable rooms and communal open spaces, including those of neighbouring properties.
 - Consultation – The EIS must be informed by direct consultation with City of Ryde regarding the design of the development, public access network and public domain areas.

Preparing your EIS

Your environmental impact statement (EIS) must be prepared having regard to the Department's *State Significant Development Guidelines* including the *Preparing an Environmental Impact Statement Guideline*. All relevant guides for State significant projects that are referenced in the SEARs are available [here](#).

During the preparation of your EIS, you are required to consult with various parties, including the Department and any relevant agencies, in accordance with the *Undertaking Engagement Guidelines for State Significant Projects*. For more information, please visit the [Prepare EIS page](#) on the NSW planning portal. Agency contact details can be found [here](#).

You will need a Registered Environmental Assessment Practitioner (REAP) to declare that your EIS meets certain standards in relation to its completeness, accuracy, quality and clarity before it is submitted to the Department, as per Division 5 of Part 8 of the EP&A Regulation. A pro forma declaration can be found in [Appendix B of the Preparing an Environmental Impact Statement Guideline](#). For more information on the REAP Scheme, please see the REAP Guidelines and the frequently asked questions on the Department's [website](#).

Biodiversity Development Assessment Report

Any development application that is required to be submitted with a Biodiversity Development Assessment Report must use the template available at:

<https://www.environment.nsw.gov.au/research-and-publications/publications-search/guidance-for-the-biodiversity-development-assessment-report-template>.

Lodging your development application (DA)

Once you submit your DA and accompanying EIS, we will check it for completeness to confirm it addresses the requirements in Part 8 of the EP&A Regulation.

To minimise delays, please contact the Department at least two weeks before you submit your DA and EIS to confirm the DA fee payment arrangements.

Please note that your DA is not taken to be lodged until the DA fee has been paid.

Information needed to determine the DA fee

Your application will need to be accompanied by an Estimated Development Cost (EDC) Report supporting the estimated development cost for your project. You must ensure that the information in the report is consistent with the information provided in your DA form and the Department's EDC requirements. Once you submit your EDC Report, we will check it for completeness against the requirements of the EP&A Regulation and the relevant Planning Circular.

If your project involves marinas, extractive industries or any subdivision of land, you must also ensure that your report includes a breakdown of estimated costs for any other component of your project.

Public exhibition requirements

When you contact us regarding the applicable DA fee arrangements, we will also confirm the consultation and public exhibition arrangements.

Community Consultation

The Department wishes to emphasise the importance of effective and genuine community consultation. A comprehensive open and transparent community consultation engagement process must be undertaken during the preparation of the EIS. This process must ensure that the community is provided with a good understanding of what is proposed (including a description of any potential impacts) and they are actively engaged in issues of concern to them. Please note, your EIS must include clear evidence that this consultation has been undertaken and justification for the proposed consultation method(s) used.

Matters of National Environmental Significance

Any development likely to have a significant impact on matters of National Environmental Significance will require approval under the Commonwealth *Environment Protection and Biodiversity*

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Conservation Act 1999 (EPBC Act). This approval is in addition to approvals required under NSW legislation.

It is your responsibility to contact the Australian Government Department of Climate Change, Energy, the Environment and Water to determine if you need approval under the EPBC Act (<https://www.dcceew.gov.au/> or 6274 1111).

If you have any questions, please contact Jeffrey Peng on (02) 9995 6685 or via email at jeffrey.peng@planning.nsw.gov.au.

Yours sincerely,

Chris Ritchie
Director
Industry Assessments
as delegate for the Planning Secretary

Development details

Application number	SSD-80018208
Project name	Julius Avenue Data Centre
Location	89 DP1082131 within City of Ryde
Applicant	ISPT PTY LTD
Date of issue	20 February 2025

Content and guidance

Any Environmental Impact Statement (EIS) must meet the minimum form and content requirements as prescribed by Part 8 of the *Environmental Planning and Assessment Regulation 2021* (EP&A Regulation) and the *State Significant Development Guidelines*.

Relevant policies and guidelines can be found at <https://www.planningportal.nsw.gov.au/major-projects/assessment/policies-and-guidelines>.

Key issues and documentation

Issue and Assessment Requirements	Documentation
1. Statutory Context - Address all relevant legislation, environmental planning instruments (EPIs) (including drafts), plans, policies, guidelines and planning circulars. - Identify compliance with applicable development standards and provide a detailed justification for any non-compliances. - Provide an explanation of how the development as described in the EIS is consistent with the development as was described in the request for SEARs (including any components that were not SSD) and provide a justification for any differences. - Address the requirements of any approvals applying to the site, including any concept approval, any endorsed or draft master plan, precinct plan or any recommendation from a Gateway determination. - Provide an accurate summary of the detailed assessment of the impacts of the project and integrate the findings and recommendations of technical reports into the justification and evaluation of the project as a whole..	Address in EIS
2. Estimated Development Cost and Employment	EDC Report

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• Provide the estimated development cost (EDC) of the development prepared in accordance with the relevant planning circular using the Standard Form of EDC Report. • Provide an estimate of the retained and new jobs that would be created during the construction and operational phases of the development, including details of the methodology to determine the figures provided.	
3. Design Quality • Demonstrate how the development will achieve: ○ design excellence in accordance with any applicable EPI provisions. ○ good design in accordance with the seven objectives for good design in <i>Better Placed</i>. • Where required by an EPI or concept approval, demonstrate that the development has been subject to a competitive design process, or reviewed by the State Design Review Panel (SDRP) where required under the <i>NSW SDRP: Guidelines for Project Teams</i>. Recommendations are to be addressed prior to lodgement.	• Address in EIS If required: • Design Review Report (where the project has been reviewed by the SDRP) • Design Excellence Strategy (where design excellence is required by an EPI) • Competition Report (where a competitive design process has been held)
4. Built Form and Urban Design • Explain and illustrate the proposed built form, including a detailed site and context analysis to justify the proposed site planning and design approach. • Demonstrate how the proposed built form (layout, height, bulk, scale, separation, setbacks, interface and articulation) addresses and responds to the context, site characteristics, streetscape and existing and future character of the locality. • Demonstrate how the building design will deliver a high-quality development, including consideration of façade design, articulation, materials, finishes, colours, any signage and integration of services. • Assess how the development complies with the relevant accessibility requirements.	• Architectural drawings • Design Report • Survey Plan • Building Code of Australia Compliance Report • Accessibility Report
5. Visual Impact • Provide a visual analysis of the development from key viewpoints, including photomontages or perspectives showing the proposed and likely future development. • Where the visual analysis has identified potential for significant visual impact, provide a visual impact assessment that addresses the impacts of the development on the existing catchment.	• Visual Analysis • Visual Impact Assessment

6. Traffic, Transport and Accessibility

- Provide a transport and accessibility impact assessment, which includes:
 - details of all traffic types and volumes likely to be generated during construction and operation, including a description of key access and haul routes.
 - an assessment of the predicted impacts of this traffic on road safety and the capacity of the road network, including consideration of cumulative traffic impacts on existing performance levels of nearby intersections (using industry standard modelling).
 - plans demonstrating how all vehicles likely to be generated during construction and operation and awaiting loading, unloading or servicing can be accommodated on the site to avoid queuing in the street network.
 - details and plans of any proposed internal road network, loading dock provision and servicing, on-site parking provisions, and sufficient pedestrian and cyclist facilities, in accordance with the relevant Australian Standards.
 - swept path analysis for the largest vehicle requiring access to the development.
 - details of road upgrades, infrastructure works, or new roads or access points required for the development if necessary.
- Provide a Construction Traffic Management Plan detailing predicted construction vehicle routes, access and parking arrangements, coordination with other construction occurring in the area, and how impacts on existing traffic, pedestrian and bicycle networks would be managed and mitigated.

- Transport and Accessibility Impact Assessment
- Construction Traffic Management Plan
- Green Travel Plan or equivalent

7. Trees and Landscaping

- Provide a detailed site-wide landscape plan, that:
 - identifies the number and location of trees to be removed and retained, and how opportunities to retain significant trees have been explored and/or informs the plan.
 - details the proposed site planting, including location, number and species of plantings, heights of trees at maturity and proposed canopy coverage (as a percentage of the site area).
 - demonstrates how the proposed development would:
 - contribute to long term landscape setting in respect of the site and streetscape.
 - mitigate the urban heat island effect and ensure appropriate comfort levels on-site.
 - contribute to the objective of increased urban tree canopy cover.
 - maximise opportunities for green infrastructure, consistent with *Greener Places* and having regard to any bush fire risk.

- Landscape Plan

8. Ecologically Sustainable Development (ESD) - Identify how ESD principles (as defined in section 193 of the EP&A Regulation) are incorporated in the design and ongoing operation of the development. - Demonstrate how the development will meet or exceed the relevant industry recognised building sustainability and environmental performance standards. - Demonstrate how the development minimises greenhouse gas emissions (reflecting the Government's goal of net zero emissions by 2050) and consumption of energy, water (including water sensitive urban design) and material resources. - If Chapter 3 of SEPP (Sustainable Buildings) 2022 applies: - demonstrate how the development has been designed to enable the general sustainability provisions, as defined in Chapter 3.2(1). - provide a NABERS Embodied Emissions Material Form to disclose the amount of embodied emissions attributable to the development in accordance with section 35BA of the EP&A Regulation.	- ESD Report - NABERS Embodied Emissions Materials Form
9. Biodiversity - Assess any biodiversity impacts associated with the development in accordance with the <i>Biodiversity Conservation Act 2016</i> and the <i>Biodiversity Assessment Method 2020</i>, including the preparation of a Biodiversity Development Assessment Report (BDAR), unless a waiver is granted, or the site is on biodiversity certified land. - If the development is on biodiversity certified land, provide information to identify the site (using associated mapping) and demonstrate the proposed development is consistent with the relevant biodiversity measure conferred by the biodiversity certification.	Biodiversity Development Assessment Report or BDAR Waiver
10. Back-up Power System - Provide a detailed overview of any proposed back-up power system, including the scale and capacity of the system, and any associated testing procedures (frequency and duration). - Provide a detailed justification for the proposed back-up power system, including alternatives considered.	Address in EIS
11. Air Quality Provide an assessment of air quality impacts, prepared in accordance with the relevant NSW Environment Protection Authority (EPA) guidelines. The assessment must address construction works and include modelling of emissions and air pollutants from predicted operations (including testing of the back-up power system) and a peak emission and air pollutant scenario,	Air Quality Impact Assessment

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and outline the proposed mitigation, management and monitoring measures that would be implemented.	
12. Noise and Vibration Provide a noise and vibration assessment prepared in accordance with the relevant EPA guidelines and Australian/International Standards. The assessment must detail construction and operational noise and vibration impacts (including testing of any back-up power system) on nearby sensitive receivers and structures, and outline the proposed mitigation, management and monitoring measures that would be implemented.	Noise and Vibration Impact Assessment
13. Ground and Water Conditions - Assess potential impacts on soil resources and related infrastructure and riparian lands on and near the site, including soil erosion, salinity and acid sulfate soils. - Provide a Surface and Groundwater Impact Assessment that assesses potential impacts on: - surface water resources (quality and quantity) including related infrastructure, hydrology, dependent ecosystems, drainage lines, downstream assets and watercourses. - groundwater resources in accordance with the <i>Groundwater Guidelines</i>.	- Geotechnical Assessment - Surface and Groundwater Impact Assessment - Salinity Management Plan and/or Acid Sulfate Soils Management Plan
14. Water Management - Provide an Integrated Water Management Plan for the development that: - is prepared in consultation with the local council and any other relevant drainage or water authority. - outlines the water-related servicing infrastructure required by the development (informed by the anticipated annual and ultimate increase in servicing demand) and evaluates opportunities to reduce water demand (such as recycled water provision). - details the proposed drainage design (stormwater and wastewater) for the site including any on-site detention facilities, water quality management measures and nominated discharge points, on-site sewage management, and measures to treat, reuse or dispose of water. - demonstrates compliance with the local council or other drainage or water authority requirements and avoids adverse downstream impacts. - Where water and drainage infrastructure works are required that would be handed over to the local council, or other drainage or water authority, provide full hydraulic details and detailed plans and specification of proposed works that have been prepared in consultation with, and comply with the relevant standards of, the local council or other drainage or water authority.	Water Management Plan

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15. Flood Risk - Identify the flood planning level as set out in the relevant council LEP or SEPP and identify any: - flood risks on site having regard to adopted flood studies - the potential effects of climate change, and - any relevant provisions of the <i>NSW Flood Risk Management Manual</i>. - Where the development is occurring on flood prone land a flood impact and risk assessment (FIRA) must be prepared having regard to the <i>Flood Impact and Risk Assessment Guideline - LU01</i> (FIRA guide). When determining the scope and category of the FIRA the requirements outlined in the FIRA guide must be considered. - Detail any flood risk management measures that are to be incorporated as part of the development having regard to relevant guidelines (including any design solutions, flood modification measures, property modification measures, operational procedures or Flood Emergency Response Plan).	Flood Impact Risk Assessment
16. Hazards and Risks - Where there are dangerous goods and hazardous materials associated with the development provide a preliminary risk screening in accordance with Chapter 3 of SEPP (Resilience and Hazards) 2021. - Where required by SEPP (Resilience and Hazards) 2021, provide a Preliminary Hazard Analysis prepared in accordance with <i>Hazardous Industry Planning Advisory Paper No.6 – Guidelines for Hazard Analysis and Multi-Level Risk Assessment</i>. - If the development is adjacent to or on land in a pipeline corridor, report on consultation outcomes with the operator of the pipeline, and prepare a hazard analysis.	- Preliminary Hazard Analysis If required: - Hazard Analysis (Pipeline)
17. Contamination and Remediation In accordance with Chapter 4 of SEPP (Resilience and Hazards) 2021, assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development.	- Preliminary Site Investigation If required: - Detailed Site Investigation - Remedial Action Plan - Preliminary Long-term Environmental Management Plan
18. Waste Management Identify, quantify and classify the likely waste streams to be generated during construction and operation.	- Waste Management Plan - Hazardous Material Survey

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• Provide the measures to be implemented to manage, reuse, recycle and safely dispose of waste in accordance with any council waste management requirements. • Identify appropriately sited waste storage areas, collection access paths/roads, and appropriate servicing arrangements for the site. • If buildings are proposed to be demolished or altered, provide a hazardous materials survey.	
19. Aboriginal Cultural Heritage • Provide an Aboriginal Cultural Heritage Assessment Report (ACHAR) prepared in accordance with relevant guidelines, identifying, describing and assessing any impacts to any Aboriginal cultural heritage sites or values associated with the site.	• Aboriginal Cultural Heritage Assessment Report
20. Environmental Heritage • Where there is potential for direct or indirect impacts on the heritage significance of environmental heritage, provide a Statement of Heritage Impact and Archaeological Assessment (if potential impacts to archaeological resources are identified), prepared in accordance with the relevant guidelines, which assesses any impacts and outlines measures to ensure they are minimised and mitigated.	• Statement of Heritage Impact • Archaeological Assessment
21. Social Impact • Provide a Social Impact Assessment that: ○ is prepared in accordance with the <i>Social Impact Assessment Guidelines for State Significant Projects</i>. ○ is targeted and proportionate to the project's context and likely impacts.	• Social Impact Assessment
22. Infrastructure Requirements and Utilities • In consultation with relevant service providers: ○ assess the impacts of the development on existing utility infrastructure and service provider assets surrounding the site. ○ identify any infrastructure required on-site and off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented on time and be maintained. ○ provide an infrastructure delivery and staging plan, including a description of how infrastructure requirements would be co-ordinated, funded and delivered to facilitate the development.	• Infrastructure Delivery, Management and Staging Plan
23. Bush Fire Risk • If the development is on mapped bush fire prone land, or a bush fire threat is identified on or adjoining the site, provide a bush fire assessment that	• Bush Fire Assessment

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details proposed bush fire protection measures and demonstrates compliance with <i>Planning for Bush Fire Protection</i> .	
24. Construction, Operation and Staging If staging is proposed, provide details of how construction and operation would be managed and any impacts mitigated.	Address in EIS
25. Contributions and Public Benefit - Address the requirements of any relevant contribution plan(s), planning agreement or EPI requiring a monetary contribution, dedication of land and/or works-in-kind and include details of any proposal for further material public benefit. - Where the development proposes alternative public benefits or a departure from an existing contributions framework, the local council, the Department and relevant State agencies are to be consulted prior to lodgement and details, including how comments have been addressed, are to be provided.	Address in EIS
26. Engagement - Detail engagement undertaken and demonstrate how it was consistent with the <i>Undertaking Engagement Guidelines for State Significant Projects</i>. Detail how issues raised and feedback provided have been considered and responded to in the project. In particular, applicants must consult with: - the relevant Department assessment team. - any relevant local councils. - any relevant agencies. - the community. - if the development would have required an approval or authorisation under another Act but for the application of s 4.41 of the EP&A Act or requires an approval or authorisation under another Act to be applied consistently by s 4.42 of the EP&A Act, the agency relevant to that approval or authorisation.	Engagement Report