Digital Engineering – Model Validation Certificate

December 2022

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[Model validation certificate](#_Toc122347434)

[General](#_Toc122347435)

[Item 1: Program/project title](#_Toc122347436)

[Item 2: Project milestone](#_Toc122347437)

[Item 3: Submission gate](#_Toc122347438)

[Item 4: Description of model (as submitted)](#_Toc122347439)

[Item 5: Model validation confirmation](#_Toc122347440)

[Item 6: Key Digital Engineering lessons learned](#_Toc122347441)

[Item 7: Key Digital Engineering risks](#_Toc122347442)

[Item 8: Supporting information](#_Toc122347443)

[Item 9: Additional notes](#_Toc122347444)

# Model validation certificate

## General

| Item | Description |
| --- | --- |
| From (name) | <insert name> |
| Position | <insert position description> |
| Organisation | <insert organisation name> |
| Date | <insert date> |
| Signed | <sign here> |
| Document number | <insert doc number> |

## Item 1: Program/project title

<Insert description here.>

## Item 2: Project milestone

<Insert description here.>

## Item 3: Submission gate

<Insert description here, for example, Integrated Design Review stage.>

## Item 4: Description of model (as submitted)

<Insert high-level description here.>

## Item 5: Model validation confirmation

| Ref | Model validation confirmation | Y/N |
| --- | --- | --- |
| 1 | Data classification used in the model is as per the *Transport for NSW (TfNSW)* *Digital Engineering Standard* (DMS-ST-202 and DMS-ST-207) and the agreed project Digital Engineering Execution Plan (DEXP) (appropriate for the phase of the project). | Y/N |
| 2 | TfNSW required properties and values are in the models (appropriate for the phase of the project).  <Provide a summary of properties and values in the *Model Property Check Template* format and include as Appendix A.> | Y/N |
| 3 | All models are geolocated in the project specified coordinate system. | Y/N |
| 4 | The Level of Definition (LoD) for model elements/disciplines is as defined in the agreed project Model Production and Delivery Table (MPDT) (also refer to *TfNSW DE Standard* for LoD guidance). | Y/N |
| 5 | Federation of discipline models has been appropriately achieved.  <Provide a list of the disciplines incorporated in the federated model.> | Y/N |
| 6 | Clash detection has been completed appropriate to the submission.  <Provide a list of key outstanding clashes/issues that still need to be addressed.>  <Clash detection report to be shown in Appendix B.> | Y/N |
| 7 | Are there any conditions of the model agreed to by all parties (that is, sub-contractors), including incomplete items or outstanding issues that may be provisionally accepted?  <Insert any conditions here.> | Y/N |
| 8 | BIM model related comments in the project comments register have been appropriately closed out, including identifying any outstanding comments that require resolution. | Y/N |
| 9 | Are there any DE items that require further definition in the next project phase?  <List any items here.> | Y/N |
| 10 | The model as submitted (in native and open data formats) is appropriate for use during the next phase of the project and/or asset life cycle. | Y/N |

## Item 6: Key Digital Engineering lessons learned

<List DE lessons learned for the phase here.>

## Item 7: Key Digital Engineering risks

<List key DE risks for the next phase here.>

## Item 8: Supporting information

<List and reference any supporting information (documents, calculations, and so on) here that is required to support effective model review and acceptance.>

## Item 9: Additional notes

<Insert any additional notes related to DE to be considered as part of the model review not listed in any of the sections above.>

###### Model property check results

<Include here as Appendix A of the Model Validation Certificate, the results of validation of the model object properties in the format of the Model Property Check Template. Both .xlsx and .pdf versions of the Model Property Check are required.>

###### Clash detection report

<Include here as Appendix B the clash detection report.>