HFC Detailed Design Document - Multi Premises Site (DDD-M)

Choose an item

|  |  |
| --- | --- |
| Job code | N60 |
| Project Type | Multiple Premises Sites (MPS) including bespoke and complex premises. |
| State | NSW |
| ESA Code | NSYD |
| SAM ID | 2NSY-64 |
| MPS code | 2NSY-64-00-MPS-049 |
| MPS SL total | 8 |
| Filename | 2NSY-64-00-MPS-049\_DDD-M\_N60\_1 |
| Author | Sandeep Attrapalli Changalaraya |
| Approver (DP) | Ramesh Chinnappa |
| Status | Issued |
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| Template number | TBC |
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Document control

Revision history

|  |  |  |
| --- | --- | --- |
| Date | Revision | Details |
| 30 12 2016 | 1.0 | First Release |

Contents

[1   About this document 3](#_Toc444008398)

[1.1   Purpose 3](#_Toc444008399)

[1.2   Scope 3](#_Toc444008400)

[1.2.1   In scope 3](#_Toc444008401)

[1.3   Related documents 3](#_Toc444008402)

[1.4   Changes in this revision 3](#_Toc444008403)

[2   Relevant contacts 3](#_Toc444008404)

[2.1   Design partner 3](#_Toc444008405)

[2.2   **nbn** 3](#_Toc444008406)

[2.2.1   Regional Deployment 3](#_Toc444008407)

[3   Assumptions 3](#_Toc444008408)

[4   HSE special inductions and compliance 3](#_Toc444008409)

[5   Design augmentation expectations 3](#_Toc444008410)

[6   Reference documents 3](#_Toc444008411)

[7   Associated files 3](#_Toc444008412)

[8   Glossary 3](#_Toc444008413)

Tables

[Table 1. Associated files and components of the Site Design and relevance for HFC technology 3](#_Toc444008414)

[Table 2. Induction Compliances During Survey and Design Engagement 3](#_Toc444008415)

[Table 3. Serviceable Location Counts 3](#_Toc444008416)

[Table 4. Design Rules 3](#_Toc444008417)

[Table 5. Final design documentation for MPS 3](#_Toc444008418)

# About this document

## Purpose

The purpose of the detailed design document – MPS (DDD-M) is to provide **nbn** with a detailed overview of an HFC MPS design and a list of the associated files. The DDD-M forms part of the final detailed design package along with the associated files.

The table below lists the associated files for an HFC MPS and the components of the Site Design. Components which are also provided as a separate file are indicated by an \*.

Table 1. Associated files and components of the Site Design and relevance for HFC technology

1. MDU Checklist
2. Site design (submitted in CAD and PDF)
   * External cable route
   * Internal cable route
   * Installation notes
   * MDF layout
   * Scope of works
   * Power options
   * BOM\*
   * BOQ\*
   * Straight line diagram \*
3. Site Electrical Service Connectivity Checklist Power Assessment
4. Record of Conversations
5. Field Inspection Report (FIR) Workbook
6. Field Inspection Report (FIR) Photos
7. Land Access and Statutory Approvals

## Scope

### In scope

This MPS will be constructed using HFC technology.

The MPS is located 45 UNION ST MCMAHONS POINT NSW 2060

|  |  |
| --- | --- |
| **nbn** name, site code: | North Sydney, 2NSY-64 |
| Telstra name, ESA code: | North Sydney,NSYD |
| Site address: | 45 UNION ST MCMAHONS POINT NSW 2060 |

## Related documents

The table below lists documents that provide further information in relation to this document:

|  |  |  |
| --- | --- | --- |
| Document | Filename | Location |
|  |  |  |
|  |  |  |
|  |  |  |

## Changes in this revision

This is the first release of this document.

Changes in this document <n.n> dated <dd mmm yyyy> compared to the previous revision <n.n> dated <dd mmm yyyy> are summarised below:

|  |  |
| --- | --- |
| Section | Details |
|  |  |
|  |  |

Relevant contacts

## Design partner

|  |  |
| --- | --- |
| Organisation | TELSTRA |
| Designer (primary contact) | Sandeep Attrapalli Changalaraya |
| Phone: | +61 2 49181274 |
| Email: | Sandeep.AttrapalliChangalaraya@team.telstra.com |

Assumptions

APD to DDD-M Planning

The DP has:

1. at a minimum, conducted a walkout survey and a detailed LIFD1 engagement for every MDU/Bespoke premises
2. had allocated to them - for each MPS required under the APD boundary area - an MPS code

Survey activities

The DP has:

1. obtained and used addressing data supplied by NBN to identify all MPS locations inside the network service boundary
2. The list of service locations/addresses will be provided in the Service Location file in the DDD-M files
3. ensured that the LIFD1 is executed to the address in question, a minimum of 10 days prior, for the MPS address to be surveyed
4. performed all network infrastructure identification, including at a minimum all lead-in conduit(s) and or ducts within the MPS or bespoke premises
5. Undertaken any required MPS or bespoke premises engagement ie:
   1. contacted and/or met the managing agent, building manager or representative thereof and requested site information in order to obtain detailed addressing including building floor plans and CAD drawings or site evacuation plans to provide layout for site
   2. captured – in the Record of Conversations document- premises specific and/or special requirements which will be submitted with the DDD-M
6. defined the premises coaxial network through the completion of a field inspection report and proved proposed infrastructure pathways to building entry point and network interconnection to outside plant infrastructure
7. identified, and rod and roped all lead-in conduits for primary route choice, noting that the design is from the HFC interconnection point in the most practical route given aerial or underground choices available to feed a solution onsite
8. wherever possible utilised any existing telecommunications cable pathways
9. provided dilapidation survey images for areas of heritage or cultural significance so as to aid and explain build scope and complexity of the premises
10. identified all rooms and floor areas that could house the proposed NBN equipment and surveyed any applicable current MDF, IDF, communications and power supply rooms that will be in the Site Design
11. identified all required civil works and augmentations in the Site Design
12. designed proposed alternative routes around geographic obstacles within an MPS
13. taken into consideration the obstructions based on the current serviceable locations identified during the survey under LIFD1
14. taken into consideration traffic management ie the closing of roads or limited access to property, in the preparation of the design and quote.
15. all onsite inductions have been listed in section 4 and all assessments required to complete the survey and design are detailed in the Site Design in OHS Activity Instructions.

HSE special inductions and compliance

All HSE considerations must be addressed via a specific building induction or, in those areas not covered by an induction, via the *HSE Hazard Assessment Re*port.

List all inductions required for this MPS in the table below.

Table 2. Induction Compliances During Survey and Design Engagement

|  |  |  |
| --- | --- | --- |
| Company/building name | Online/paper | Time taken to complete |
| <Enter> | Choose an item | Choose an item |
| <Enter> | Choose an item | Choose an item |

Associated files

The following table lists all final design files for this MPS:

Table 5. Final design documentation for MPS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Deliverable | | File type | | File name |
| Package | | | | |
| DDD-M package | Zip | | TLS\_2NSY-64-00-MPS-049 | |
| Data set | | | | |
| Site design (AutoCAD) | DWG | | 2NSY-64-00-MPS-049\_Site\_Design\_1 | |
| Documents | | | | |
| DDD-M (this document) | Word | | 2NSY-64-00-MPS-049\_DDD-M\_N60\_1 | |
| BOM/BOQ | Excel | | 2NSY-64-00-MPS-049\_BOMBOQ\_1 | |
| Record of Conversations | Excel | | NA | |
| MDU Field Inspection Photos | Zip | | 2NSY-64-00-MPS-049\_FIR\_Photos\_1 | |
| LASA | | | | |
| Low Impact Facility (LIFD1) | PDF | | NA | |
| Low Impact Facility (LIFD2) | PDF | | NA | |
| HEC ( If applicable | PDF | | NA | |
| Power Applications | PDF | | NA | |

Glossary

|  |  |
| --- | --- |
| Term | Description |
| ADA | Access Distribution Area |
| DA | Distribution Area |
| DDD | Detailed Design Document |
| DOCSIS | Data Over Cable Service Interface Specification |
| DS | Downstream |
| GNA | Global Network Amplifier |
| GNAF | Geocoded National Address file |
| GPO | General Purpose Outlet |
| HFC | Hybrid Fibre Coaxial |
| HLD | High Level Design |
| ICD | Intermediate Connection Device |
| IFDV | In Field Design Variation |
| LASA | Land Access and Statutory Approvals |
| LE | The Line Extender |
| LIC | Lead-In Conduit |
| LPS | Line Power Supply |
| MDU | Multi Dwelling Unit |
| MPS | Multi Premises Site |
| MTM | Multi Technology Mix |
| NEBS | **nbn** Ethernet Bitstream Service |
| NPD | Network Planning Document |
| NTI | New Technology Introduction |
| PCD | Premises Connection Device |
| PDD | Planning Detailed Design |

Template Revision History

This template is owned by EDS Construction Standards & Processes and the Process Delivery team.

The table below records template maintenance changes and approved changes from version 1.0 onwards.

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Changes | Initiated by |
| DD MMM YY | 1.1 |  |  |