

# ICT

## Communications room, UPS room and General Room-Ward

### Inspection Hold Points

Version 2019.1.1 - FINAL



### 1.1.1 Document Review

Version	Summary of Changes	Author	Date
2019.0.1	Migrate information to the new template	Nitin Saxena	29/08/19
2019.1.0	Document for release	Nitin Saxena	29/08/19
2019.1.1	Document update	Robert Vogt	11/10/2019

### 1.1.2 Document Approval – For Release

Version	Approver	Position	Date
2019.1.1	Mark Moerman	Senior Director, DSD Infrastructure Hub, HD	11/10/2019

### 1.1.3 References

Document	Version	Location

# Executive Summary

This document provides templates for the Communications and Uninterruptible Power Supply (UPS) Rooms inspections. The templates have been developed to provide the head contractor a list of items that will be inspected by the nominated staff.

These templates will be used for inspections, at several stages of the project, as mentioned below:

- Pre room sheeting;
- Pre data cabinet installation - communications room inspection;
- Post data cabinet – communications room inspection; and
- Pre network installation – communications room inspection.

Following each inspection, the head contractor will be provided with a list of defects or non-compliant items, if any. These defects will need to be rectified by the head contractor prior to proceeding to the next stage of inspections.

These inspections are intended to provide the following benefits:

- Setting an expectation with the head contractor as to the quality of construction expected within the communications rooms and the wards;
- Consistent communications room infrastructure implementation that complies with DSD standards;
- Rectification of any issues during the construction phase of the project; and
- Engagement of various stakeholders to ensure their respective requirements are met by the relevant rooms; and
- Signoff from stakeholders.

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# 1. Introduction

## 1.1 Document Scope

This document provides templates that will be used for site inspections during the construction of the building.

DSD in conjunction with Shared Services ICT has developed standards and specification that must be complied with by the head contractor and third-party organisations that provide ICT services for the Health Directorate. These standards are critical to the 'problem-free' operation of the all the critical Health services provisioned at the site.

These inspections are intended to ensure that the head contractor has complied with the Specifications and Standards provided by DSD.

## 1.2 Core infrastructure systems

Several core infrastructure systems will be installed at the site. This document provides scope for each party and the technical specifications for the core infrastructure systems which include:

- **Cabling specification.** Baseline requirements for ICT communication fibre and copper cabling requirements;
- **Communication rooms.** Both building and floor level distribution rooms to host ICT cabinets with network and associated equipment;
- **Power specification.** Power connection requirements.

## 1.3 Inspection Notification

For each of the following inspections several people need to be contacted and arrangements made for them to be present at the inspection. As such it is important to provide advance notice to the DSD project manager of upcoming inspections. DSD require a minimum of 5 days' formal notice prior to any inspection being carried out regardless of the inspection points being present in the building schedule. This is to ensure that all parties can be organised to be present.

It is expected that the hold point inspections will appear in the head contractors schedule. Any change to the inspection date will be immediately be escalated to the Major Project's Project Manager and DSD Project Manager. This is so vendors can be notified of any delays or changes to arranged schedules.

Any defects identified in the inspection will require the inspection to be repeated until all defects have been rectified or accepted. On completion and acceptance of the final inspection DSD require 10 days to install and commission ICT systems.

## 2. Inspection Schedules

### 2.1 Communication Room Architecture

#### 2.1.1 Staff Representative

The following staff representatives are expected to attend the inspections:

- DSD – Architect
- DSD – Project Manager;
- IFCW – Project Manager; and
- Head Contractor – Site Foreman or representative.

#### 2.1.2 Inspection Table

Room number			
Room type	<input type="checkbox"/> Building Distributor <input type="checkbox"/> Floor Distributor <input type="checkbox"/> Combined		
Inspection date			
Pre-Sheeting inspection Result summary Pass <input type="checkbox"/> Fail <input type="checkbox"/>	<input type="checkbox"/> All checks have been appropriately passed <input type="checkbox"/> Most checks have passed, some attention required (See Notes) <input type="checkbox"/> A number of items need attention. (See Notes) Name: _____ Signature: _____		
Item		Initials	Comment
Room			
Do the dimensions match design drawing	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Does the door match the design location	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Environment			
Are there any pipes crossing the communication room floor space	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Notes:			

Table 1 – Communications Room Architecture

## 2.2 Pre-Sheeting Communications or UPS Room

### 2.2.1 Staff Representative

The following staff representatives are expected to attend the inspections:

- DSD – Architect
- DSD – Project Manager;
- IFCW – Project Manager; and
- Head Contractor – Site Foreman or representative.

### 2.2.2 Inspection Table

Room number		
Room type	<input type="checkbox"/> Building Distributor <input type="checkbox"/> Floor Distributor <input type="checkbox"/> Combined	
Inspection date		
Pre-Sheeting inspection Result summary Pass <input type="checkbox"/> Fail <input type="checkbox"/>	<input type="checkbox"/> All checks have been appropriately passed <input type="checkbox"/> Most checks have passed, some attention required (See Notes) <input type="checkbox"/> A number of items need attention. (See Notes) Name: _____ Signature: _____	
Item	Acceptable condition	Initials
Room		
Confirm Dimensions of room are correct	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Confirm Air Conditioning position is correct	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Cabling		
Separation between power and data cables is correct	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Data cabling is in correct position	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Power cabling is in correct position	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
A&B GPO for iSTAR PSU's have been catered for	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Data outlets for iSTAR N+3 have been catered for	<input type="checkbox"/> Yes <input type="checkbox"/> No	





## 2.3 Pre-Sheeting General Ward or Room

### 2.3.1 Staff Representative

The following staff representatives are expected to attend the inspections:

- DSD – Architect
- DSD – Project Manager;
- IFCW – Project Manager; and
- Head Contractor – Site Foreman or representative.

### 2.3.2 Inspection Table

Room number/ Ward		
Room type	<input type="checkbox"/> Building Distributor <input type="checkbox"/> Floor Distributor <input type="checkbox"/> Combined <input type="checkbox"/> General ward/room	
Inspection date		
Pre-Sheeting inspection Result summary Pass <input type="checkbox"/> Fail <input type="checkbox"/>	<input type="checkbox"/> All checks have been appropriately passed <input type="checkbox"/> Most checks have passed, some attention required (See Notes) <input type="checkbox"/> A number of items need attention. (See Notes) Name: _____ Signature: _____	
Item	Acceptable condition	Initials
Cabling		
Separation between power and data cables is correct	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Data cabling is in correct position	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Power cabling is in correct position	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Notes:		

Table 3 - Pre-Sheeting General Ward

## 2.4 Pre-Data Cabinet Installation Inspection

### 2.4.1 Staff Representative

The following staff representatives are expected to attend the inspections:

- DSD – Architect
- DSD – Project Manager;
- IFCW – Project Manager; and
- Head Contractor – Site Foreman or representative.

### 2.4.2 Inspection Table

Room number		
Room type	<input type="checkbox"/> Building Distributor <input type="checkbox"/> Floor Distributor <input type="checkbox"/> Combined	
Inspection date		
Pre-Data Cabinet Installation Result summary	<input type="checkbox"/> All checks have been appropriately passed <input type="checkbox"/> Most checks have passed, some attention required (See Notes) <input type="checkbox"/> A number of items need attention. (See Notes) Name: _____ Signature: _____	
<b>Section/Item</b>	<b>Strike out the incorrect options</b>	<b>Initials</b>
Floor surface		
Smooth with no chips or dips	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Commercial grade anti-static vinyl extending to at least 100mm up the wall <b>Or</b> Floor wall intersect joint sealed with a paintable silicon sealer then painted with concrete sealing, hard wearing epoxy style paint to at least 100mm up the wall	<input type="checkbox"/> Antistatic Vinyl <input type="checkbox"/> Sealed and painted <input type="checkbox"/> Incorrect/unfinished Painted option approved by solutions architect: _____	
Floor space		
Room is minimum 3.4m wide and 3.1m deep (May need to be larger to allow for ancillaries)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Alternate approved by solutions architect: _____	

Walls		
Walls span from floor to hard ceiling (not just to the soft internal ceiling) ensuring room is secure from unauthorised access (may have mesh wall above soft ceiling)	<input type="checkbox"/> Secure <input type="checkbox"/> Insecure	
Surfaces are <ul style="list-style-type: none"> <li>• Flat and Smooth</li> <li>• Painted and clean</li> <li>• Rendered or plastered (not brick)</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
Wall space for non-rack mounted items (allowing for minimum clearances) <ul style="list-style-type: none"> <li>• I-Star unit</li> <li>• <b>A</b> and <b>B</b> distribution boards</li> <li>• Air conditioners</li> <li>• other?</li> </ul>	<input type="checkbox"/> Available <input type="checkbox"/> Not available	
Ceiling		
Ceiling height clearance is a min 350mm above cabinet height.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Rack chimneys installed or provisioning to do so where cables penetrate ceilings (or other appropriate measures to prevent ingress of dust and debris)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Entrance		
Base of door has lip or seal to prevent water ingress	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Door swing path does not interfere with or obstruct open cabinets, other hardware or pathways Minimum 800mm between open doors	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Security		
Two single data outlets (DO) cabled and mounted near the ceiling at the two corners opposite to the wall on which the cabinets are positioned against for provision of IP cameras for access monitoring Note: matching GPO is not required	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Room provisioning		
Power points provided adjacent to all data outlets (excluding Security camera data outlets)	<input type="checkbox"/> Provided <input type="checkbox"/> Not provided	

<b>Notes:</b>		

*Table 4 - Pre-Data Cabinet Installation*

## 2.5 Post-Data Cabinet Installation Inspection

### 2.5.1 Staff Representative

The following staff representatives are expected to attend the inspections:

- DSD – Architect
- DSD – Project Manager;
- IFCW – Project Manager;
- Head Contractor – Site Foreman or representative; and
- SSICT – NCS and ICT Facilities.

### 2.5.2 Inspection Table

Room number		
Room type	<input type="checkbox"/> Building Distributor <input type="checkbox"/> Floor Distributor <input type="checkbox"/> Combined	
Inspection date		
Post Cabinet Installation Result summary	All checks have been appropriately passed Most checks have passed, some attention required A number of items need attention. Name: _____ Signature: _____	
<b>Section/Item</b>	<b>Strike out the incorrect options</b>	<b>Initials</b>
General		
Reconfirm Pre-Cabinet installation checklist still valid and passed.	<input type="checkbox"/> Passed <input type="checkbox"/> Invalid	
Cabinets		
If room utilised for Building Distributor <ul style="list-style-type: none"> <li>• BD data cabinet included</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
If room utilised for Floor Distributor <ul style="list-style-type: none"> <li>• 3x FD data cabinets (FD, Non-Critical, Health Appliance) included</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Space for future expansion cabinet included	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Cabinets are SRA frames (check specifications from solution design)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Configured as per Solution design</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• 45 Rack Units</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

<ul style="list-style-type: none"> <li>Half/double doors front and rear</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Side panels and security separation panels installed</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Internal cable trays attached spare provides</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Cabinets are labelled with Communications room name-number and cabinet ID (e.g. FD2.2-A...B...C...etc)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
First cabinet	Cabinet function: _____	
<ul style="list-style-type: none"> <li>Adjacent to wall</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Doors (front and rear) can be opened beyond 90° without impedance</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Minimum clearance between front and wall or any mounted fixtures or other obstructions is 1100mm (to allow full length hardware to be racked)</li> </ul>	<input type="checkbox"/> 1100+ <input type="checkbox"/> <1100	
<ul style="list-style-type: none"> <li>Minimum clearance between rear and wall or any mounted fixtures or other obstructions is 900mm</li> </ul>	<input type="checkbox"/> 900+ <input type="checkbox"/> <900	
Second cabinet	Cabinet function: _____ <input type="checkbox"/> Not applicable	
<ul style="list-style-type: none"> <li>Adjacent and bolted to First</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Doors (front and rear) can be opened beyond 90° without impedance</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Minimum clearance between front and wall or any mounted fixtures or other obstructions is 1100mm (to allow full length hardware to be racked)</li> </ul>	<input type="checkbox"/> 1100+ <input type="checkbox"/> <1100	
<ul style="list-style-type: none"> <li>Minimum clearance between rear and wall or any mounted fixtures or other obstructions is 900mm</li> </ul>	<input type="checkbox"/> 900+ <input type="checkbox"/> <900	

Third cabinet	Cabinet function: _____	
	<input type="checkbox"/> Not applicable	
<ul style="list-style-type: none"> <li>• Adjacent and bolted to Second</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Doors (front and rear) can be opened beyond 90° without impedance</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Minimum clearance between front and wall or any mounted fixtures or other obstructions is 1100mm (to allow full length hardware to be racked)</li> </ul>	<input type="checkbox"/> 1100+ <input type="checkbox"/> <1100	
<ul style="list-style-type: none"> <li>• Minimum clearance between rear and wall or any mounted fixtures or other obstructions is 900mm</li> </ul>	<input type="checkbox"/> 900+ <input type="checkbox"/> <900	
Fourth cabinet	Cabinet function: _____	
	<input type="checkbox"/> Not applicable	
<ul style="list-style-type: none"> <li>• Adjacent and bolted to Third</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Doors (front and rear) can be opened beyond 90° without impedance</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Minimum clearance between front and wall or any mounted fixtures or other obstructions is 1100mm (to allow full length hardware to be racked)</li> </ul>	<input type="checkbox"/> 1100+ <input type="checkbox"/> <1100	
<ul style="list-style-type: none"> <li>• Minimum clearance between rear and wall or any mounted fixtures or other obstructions is 900mm</li> </ul>	<input type="checkbox"/> 900+ <input type="checkbox"/> <900	
Fifth cabinet	Cabinet function: _____	
	<input type="checkbox"/> Not applicable	
<ul style="list-style-type: none"> <li>• Adjacent and bolted to Fourth</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Doors (front and rear) can be opened beyond 90° without impedance</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• Minimum clearance between front and wall or any mounted fixtures or other obstructions is 1100mm (to allow full length hardware to be racked)</li> </ul>	<input type="checkbox"/> 1100+ <input type="checkbox"/> <1100	
<ul style="list-style-type: none"> <li>• Minimum clearance between rear and wall or any mounted fixtures or other obstructions is 900mm</li> </ul>	<input type="checkbox"/> 900+ <input type="checkbox"/> <900	

Provisioning for spare cabinet		
<ul style="list-style-type: none"> <li>Space allocated at end of row</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Doors (front and rear) can be opened beyond 90° without impedance</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> <li>Minimum clearance between front and wall or any mounted fixtures or other obstructions is 1100mm (to allow full length hardware to be racked)</li> </ul>	<input type="checkbox"/> 1100+ <input type="checkbox"/> <1100	
<ul style="list-style-type: none"> <li>Minimum clearance between rear and wall or any mounted fixtures or other obstructions is 900mm</li> </ul>	<input type="checkbox"/> 900+ <input type="checkbox"/> <900	
<ul style="list-style-type: none"> <li>End of row walkway minimum clearance of at least 800mm (plus the space of the cabinet) to wall or any mounted fixtures or other obstructions</li> </ul>	<input type="checkbox"/> 800+ <input type="checkbox"/> <800	
Cabinets are in good condition and not damaged.	<input type="checkbox"/> OK <input type="checkbox"/> Not OK	
Cabinets have chimneys fitted if cables penetrate a false ceiling	<input type="checkbox"/> OK <input type="checkbox"/> Not OK	
Infrastructure		
Fibre distribution between cabinets is via dedicated pathway through all cabinets (provided in ACT Health custom cabinets) or via “yellow fibre duct” mounted above cabinets. Fibre duct shall be snap together type with waterfalls to each cabinet	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Each patch panel in cabinet labelled at minimum with an ID = “Number of patch panels from top” (e.g. 5)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Each patch panel port in each cabinet labelled (from 1-24). This will usually be provided by manufacturer on the patch panel. Additional label space provided on PP’s shall be used to identify the source in the case of critical or business functions (e.g. WAP, Biomed device, FIP etc) and also be highlighted/coloured appropriately for the given service (same as patch lead colour. E.g. black, purple, red)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Structured Cabling is CommScope Systemax® EA/ Cat 6A U/UTP LSZH	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Patch panels are CommScope Systemax® EA/ Cat 6A U/UTP, 1RU angled, single row outlets, 24 port and fully loaded	<input type="checkbox"/> Yes <input type="checkbox"/> No	



An A4 copy of cable colour standards chart is clearly posted at the end of each cabinet row	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Patch cables to use the agreed colour coding format	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Patch Cabling is CommScope Systemax ® EA/ Cat 6 U/UTP	<input type="checkbox"/> Cat 6 <input type="checkbox"/> Cat 6a <input type="checkbox"/> No	
Walls		
All Power GPO's and wall data DO fittings are to be properly and securely finished with plastic screw covers fitted and Traffolyte labels	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Building Data outlets labelled with Comms room name and number ("Room type" -"floor"."rm#" e.g. "BD/FD-2.3), dash, Cabinet ID" & "number of PPs from top"( e.g. E or 5 -numeral is less confusing as cabinets use alpha ID's),dash, port# e.g. Floor Distributor level 2, third comms room, second cabinet, fifth PP from top, eighth data outlet along label will look like FD-2.3-B5-8	<input type="checkbox"/> Yes <input type="checkbox"/> No	
A/C		
Room temperature after 24 hours of use acceptable (22° +-2°)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Remote control(s) present and functional	<input type="checkbox"/> Yes <input type="checkbox"/> No	
BMS		
Air conditioners connected into BMCS for failure warning	<input type="checkbox"/> Yes <input type="checkbox"/> No	
BMCS programmed to alert on room over temperature (>24°)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Network switches set to alert when overheating	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire and Emergency		
IP based heat detectors present in cabinets containing active equipment	<input type="checkbox"/> Yes <input type="checkbox"/> No	
EWIS audible Emergency system or PA speaker in the room. Demonstrated to be clearly heard from within the room above all equipment noise	<input type="checkbox"/> Present and passed testing <input type="checkbox"/> Appears present and untested <input type="checkbox"/> Not present	
Check all room penetrations are correctly fire sealed and certified if room is fireproofed.	<input type="checkbox"/> Comms room certified <input type="checkbox"/> Battery room certified <input type="checkbox"/> Not applicable	

Fire certifications scanned. Original forwarded to B&I. Soft copy forwards to HPI Solution architects	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable	
Communication room fitted with a wall mounted VoIP phone. The phone has the ability to call TCH Switch and dial 8 for Duress or Fire emergencies, or outlet for VoIP phone connection.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	
Notes/Defects		

*Table 5 - Post Data Cabinet Installation*

## 2.6 Defect Inspection

### 2.6.1 Staff Representative

The following staff representatives are expected to attend the inspections:

- DSD – Architect
- DSD – Project Manager;
- IFCW – Project Manager;
- Head Contractor – Site Foreman or representative; and
- SSICT – NCS and ICT Facilities.

### 2.6.2 Inspection Table

Room number		
Room type	<input type="checkbox"/> Building Distributor <input type="checkbox"/> Floor Distributor <input type="checkbox"/> Combined	
Inspection date		
Pre-Network connectivity inspection. Result summary	<input type="checkbox"/> All checks have been appropriately passed <input type="checkbox"/> Most checks have passed, some attention required <input type="checkbox"/> A number of items need attention. (See Notes Name: _____ Signature: _____	
General		
All items identified as defects in Post Cabinet installation checklist have been addressed.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Notes:		

Table 6 - Pre-Network Installation

## 3. Signoff

The following form provides formal acceptance by the relevant personnel to indicate that the Communications and other rooms have been inspected and are fit-for-purpose.

Room number			
Room type		<input type="checkbox"/> Building Distributor <input type="checkbox"/> Floor Distributor <input type="checkbox"/> Combined <input type="checkbox"/> UPS	
Representative and title	Area	All tests completed and systems/ infrastructure is in a fit state.	Signature and date
Mark Moerman, Senior Director, ICT Infrastructure	DSD Infrastructure	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Kevin Landale, Senior Director, Critical Systems and Infrastructure Hub	DSD Critical Systems	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Michael Warylo, Manager Fire Safety and Transport	Fire	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dario Gomes, Manager, Security Planning and Design	Security	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Hydraulics	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Mechanical	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Project Manager	IF&CW	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Table 7 - Signoff