## **Development Stage 2 – Design and Planning HAI – SCRIBE SIGN OFF**



HAI Scribe date	22/08/19	
Description of works	Phase 2 Hospital Expansion- Orthopaedic Theatres (Lev	el3)
HAI-SCRIBE review team	'Healthcare Associated Infection System for Controlling Ris 'HAI-SCRIBE Implementation Strategy' and 'Scottish Health F Declaration: We hereby certify that we have cooperated in the a documentation.	acilities Note 30: Version 3'.
Name	Designation / Company	Contact details
Development and review of 1:50 plans	have not had oversight of an ICD.	
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## **DEVELOPMENT STAGE 2: HAI-SCRIBE applied to the design and planning stage of the development**

Issues to be considered at the design and planning stage of the development will include an overall assessment of the project and any infection spread risk from the design and layout of the facility. An assessment of infection risk from detailed engineering and building features should also be undertaken.

Issues to be considered include (but are not limited to) the following:

- The design and layout of the healthcare facility should not encourage the spread of infection
- The design and layout of the healthcare facility should take account of the healthcare procedures and services to be provided and the
  appropriate management of risk required for the range of population groups (reference Development stage 4 verification of work carried
  out)
- Finishes and floors, walls, ceilings, doors, windows, fixtures and fittings
- Space around beds
- Isolation rooms
- Provision of hand-wash basins, liquid soap dispensers, paper towel and alcohol hand rub dispensers.
- Provision of sinks for decontamination purposes
- Engineering services
- Storage facilities
- Laundry and linen services

It should be noted that this document can be used for clinical and non-clinical areas and some of the questions in the checklist may not apply e.g. building external plant rooms, car parking facilities. In these cases, other issues may require to be addressed and the project team should consider these. All additional information should be added to the appropriate section of this document.

2.a	Brief description of the proposed development project and	Phase 2 Hospital Expansion- Development of 5 Orthopaedic theatres and
	the planned development site.	associated supporting accommodation
2.b	Identify any potential hazards associated with the design and/or proposed site.	<ol> <li>Site has been identified as a medium risk UXO location due to WW2 bombing.</li> <li>Site adjacency to existing live hospital services</li> </ol>
2.c	Identify any risks associated with the hazards above.	<ol> <li>Site disruption in the event unexploded bomb neutralisation is required.</li> <li>The risk of infection associated with construction</li> </ol>
2.d	risk register.  Control Measures  1. Desktop UXO study completed. Ground penetrating rworks.	to eliminate or mitigate the identified risks. Ensure these are entered on the project adar survey undertaken. UXO monitoring undertaken during all intrusive excavations of breakthrough associated HAI SCRIBE and Transplant Risk Assessment.
2.e		dress the project risk may have unintended consequences e.g. closure of window les should be considered at this point, they should be noted and action to address
2.f	Actions to be addressed NIL	By whom By When

desig	ELOPMENT STAGE 2: HAI-SCRIBE applied to the grant and planning stage of the development eral Overview	Mark 'X' in the appropriate box
1	In order to minimise the risk of HAI contamination is there separation of dirty areas from clean area?  Have these issues and actions to be taken been noted above?	Comments: 3 sets of lifts/stars with designated lobbies, directly access theatre environment from floors below.  • Public Lifts 1 & 2 and Stair 1- passenger lifts to transport SARU, Endoscopy patients and staff from front entrance from Level 1 to Level 2. Security access/Fire escape only on Level 3.  • Surgical Lifts 3-6 – sized transport SARU patients on foot or trolley & accompanied by staff to and from theatre. This lift is only functional between Level 2 and 3 and opens directly into the immediate ortho theatres environment. Pressure cascade from theatre to corridor exists. Theatre corridors and SARU pressures are equal. Security access only on level 1  • FM Lifts 7 & 8 and Stair 2 – sized to transport staff, waste, instruments and linen from levels 1-3. Security access on all levels.  Yes x No N/A
2	Kitchen Are the food preparation areas (including ward kitchens) and distribution systems fit for purpose and complying with current food safety and hygiene standards?  Have these issues and actions to be taken been noted above?	Yes x No N/A  Comments: Staff rest is provided to support the additional theatres. Two Smart Hubs are provided for comfort breaks/admin tasks close to theatre. Smart hubs are not designed for food prep from a fire safety viewpoint  Yes x No N/A  Comments:

3	Waste Are designed waste management facilities and systems robust and fit for purpose? Consider:  Local and central storage Systems for handling and compaction of waste Systems for separation and security of waste (especially healthcare and clinical waste)  Have these issues and actions to be taken been noted above?	Comments: Disposal hold adjacent to FM lifts provided; this is designed to fit 4x 770 litre Eurobins each and 2 x Used linen cage. Type & volume of waste segregation to be defined locally. As a result of the disposal room size, regular waste/used linen uplifts will be required throughout the day.  Rooms specific waste bins are defined on 1:50 plan and equipment lists.  Dirty Utility rooms are adjacent to all theatres.  One dirty utility will have a macerator.  Yes x No N/A  Comments:
DEVE	TO DESCRIPTION OF A LIAB CODIDE.	( X )'
desig	LOPMENT STAGE 2: HAI-SCRIBE applied to the n and planning stage of the development ral Overview	Mark 'X' in the appropriate box
4	Are there satisfactory arrangements for effective management of laundry? Consider:  • Local and central storage	Yes x No N/A  Comments:  Main linen store  8 8m2 area located within the FM area to serve 5 theatres. This area will hold 6-7 clean linen.

Laundry

Are there satisfactory arrangements for effective management of laundry? Consider:

Local and central storage

Systems for movement of laundry to central storage

Systems for handling laundry

Systems for separation and security of laundry, especially infected laundry

Linen requirements theatre

Minimal linen requirements in theatre. A small linen cupboard has been provided in the exit bag to store linen for each day.

Used linen will disposed of after each case into a red alginate bag ( if contaminated) then clear bag and taken to disposal hold.

	Have these issues and actions to be taken been noted above?	Yes X No N/A Comments:
5	Housekeeping Are there sufficient facilities and space for the cleaning and storage of equipment used by hotel services staff and estates staff?	Comments:  8.8 m2 DSR located within the FM area, containing janitorial sinks and enclosed storage.  Ideally this should be 10m2 in size, however a further DSR is planned within refurb area of theatre.
	Have these issues and actions to be taken been noted above?	Yes X No N/A Comments:
6	Staff Changing Are staff changing and showering facilities suitably sited and readily accessible for use, particularly in the event of contamination incidents?	Yes x No N/A  Comments: Staff changing & showers provided.  • Female changing designed to hold 78 lockers/2 showers & 5 WCs. This space can also accommodate staff from Endoscopy/SARU if required.  • Male changing designed to hold 30 lockers/2 showers/2 wcs and urinals.  Yes x No N/A
	Have these issues and actions to be taken been noted above?	

design	LOPMENT STAGE 2: HAI-SCRIBE applied to the n and planning stage of the development al Overview	Mark 'X' in the appropriate box
7	Does each ward allow sufficient single room accommodation and space between beds to comply with the current guidance?	Yes No N/A x
	Have these issues and actions to be taken been noted above?	Yes No N/A x Comments:
8	Are there sufficient single rooms to accommodate patients' known/potential risk of infection? Is there satisfactory provision of isolation facilities for infectious and potentially infectious patients?	Yes No N/A X Comments:
	Have these issues and actions to be taken been noted above?	Yes No N/A x Comments:
9	Are all planned surfaces, fixtures and fittings designed to be easily cleaned and maintained in a clean condition? Included (but not limited to):  Floors  Walls  Ceilings  Doors  Windows  Fixtures and fittings and soft furnishings  Curtain Rails and curtains  Lighting  Toilets, baths, showers etc.  Concealed service ducting	Comments:  All fixtures and fittings have been requested to be compliant with SHFN 30 Part A & withstand decontamination in accordance with the National Infection Prevention and Control Manual.
	Anything else of note Have these issues and actions to be taken been noted above?	Yes x No N/A Comments:

desig	LOPMENT STAGE 2: HAI-SCRIBE applied to the and planning stage of the development al Overview	Mark 'X' in the appropriate box
10	Are soft furnishings covered with impervious material and are curtains able to withstand washing at disinfection temperatures?	Yes x No N/A  Comments: Any soft furnishings detailed in equipment lists must be impervious and wipeable. In particular rest room furniture.
11	Is the toilet, bath and shower accommodation conveniently sited in relation to the ward and, where possible, is this accommodation en-suite?	Yes No N/A x Comments:
	Have these issues and actions to be taken been noted above?	Yes No N/A x Comments:
12	Are bathrooms/toilet facilities easy to clean?	Yes x No N/A  Comments:  All sanitary fittings requested to be compliant with SHFN 30/SHTM 64.
13	Where required are there sufficient en suite single rooms with negative/positive pressure ventilation to minimise the risk of infection?	Yes No N/A X  Comments:
14	Hand Hygiene Does each single room have clinical hand-wash basin, liquid soap dispenser, paper towels, and alcohol rub dispenser in addition to the hand-wash basin in the en- suite facility?	Yes x No N/A x  Comments:
15	Do intensive care and high dependency units have sufficient clinical hand-wash basins, liquid soap dispensers, paper towels, and alcohol rub dispensers conveniently accessible to ensure the practice of good hand hygiene? An assessment should be made, however, to ensure that there is not an over-provision of hand-wash basins resulting in under-use.	Yes No N/A X Comments:

DEVE	OPMENT STAGE 2: HAI-SCRIBE applied to the					
	and planning stage of the development	Mark 'X' in the appropriate box				
16	Is there provision of clinical hand-wash basins, liquid soap dispensers, paper towels, and alcohol rub dispensers in lower dependency settings like mental health units, acute, elderly and long term care settings appropriate to the situation with a ratio of one basin/dispenser to four to six beds?	Yes Comments:	х	No	N/A	А <u>х</u>
17	Do out-patient areas and primary care settings have a clinical hand-wash basin close to where clinical procedures are carried out?	Yes Comments:		No	N/A	X
18	Do all toilets have a hand-wash basin, liquid soap dispenser and paper towels?	Yes Comments: Yes, detailed within 1:50	Х	No	N/A	4
19	Are all clinical hand-wash basins exclusively for hand hygiene purposes?	Yes Comments: CHWB basins should be labelled as "Exclusively for har	x nd hygie	No ne only"	N/A	4
20	Does each clinical hand-wash basin have wall mounted liquid soap dispenser, paper towel dispenser?	Yes Comments: Yes, detailed within 1:50 Scrub sinks requirements detailed within 1:50 plans Gowning space detailed within 1:50 plan	х	No	N/A	4
21	Does each clinical hand-wash basin satisfy the requirement not to be fitted with a plug?	Yes Comments: All sanitary fittings requested to be compliant with SHFN	x I 30/SH	No TM 64.	N/A	4
22	Are elbow-operated or other non-touch mixer taps	Yes	Х	No	N/A	4

provided in clinical areas?	Comments: Lever/Elbow operated Elbow operated scrub taps/not automatic	<b>A</b>	0	

desigr	LOPMENT STAGE 2: HAI-SCRIBE applied to the and planning stage of the development al Overview	Mark 'X' in the appropriate box
23	Does each hand-wash basin have a waterproof splash back surface?	Yes x No N/A Comments: Integral IPS panel detailed within 1:50,all sanitary fittings requested to be compliant with SHFN 30.
24	Is each hand-wash basin provided with an appropriate waste bin for used hand towels?	Yes x No N/A Comments: Detailed within 1:50 equipment list.
25	Decontamination Facilities  Are separate, appropriately sized sinks provided locally, where required, for decontamination?  (The sinks should be large enough to immerse the largest piece of equipment and there should be twin sinks, one for washing and one for rinsing. A clinical hand-wash basin should be provided close to the twin sinks).	Yes No N/A x  Comments: No local decontamination
26	Are appropriate decontamination facilities provided centrally for sterilisation of specialist equipment?	Yes x No N/A Comments:
27	Is there adequate provision in terms of transport, storage, etc. to ensure separation of clean and used equipment and to prevent any risk of contamination of cleaned equipment?	Comments:  • Sterile Instruments Sterile instruments will be stored in the clean cart room; this is capable of holding 10 carts. Supplementary instruments will be stored in the designated Instrument store (51.6m2). This should be compliant with HFS publication GUID 5010: 2014 Part A.  • Used Instruments Used instruments ready for decontamination will be held in the designated Dirty Cart Store, this is capable of holding 9 carts.

28	Does the system in operation comply with the current		Yes	×	No	N/A	
	guidance on decontamination facilities and procedures?	Comments:			-		
	l		_				

desiç	ELOPMENT STAGE 2: HAI-SCRIBE applied to the gn and planning stage of the development eral Overview	Mark 'X' in the approp	oriate box			
29	Storage Is there suitable and sufficient storage accommodation provided in each area of the healthcare facility? Consider:  Patient care equipment  Mobile equipment which is not in constant use  Cleaning equipment  Domestic Services Room  Sterile and non-sterile items  Medications and solutions  Linen and waste  Stationery and patient records  Patient clothes	Comments  Patient care equipment  Mobile equipment which is not in constant use  Domestic Services Room  Sterile and non- sterile items  Medications and solutions  Linen and waste  Stationery and patient records  Patient clothes	Designated store for robotic equipm  Designated large equipment store  Provided in FM area  Designated Implant store Designated instrument store Clean cart rooms Dirty cart rooms Within theatre- items will be stored i General equipment store shared bet Pharmacy store provided  As section 3&4  No requirement for record storage	n mobile		N/A
30	Is there separate suitable storage for contaminated material and clean material to prevent the risk of contamination?	Comments: See section 27	Yes	х	No	N/A

DEVELOPMENT STAGE 2: HAI -SCRIBE applied to the design and planning stage of the development Engineering		Mark 'X' in the appropriate box					
31	Are heat emitters, including low surface temperature radiators designed, installed and maintained in a manner that prevents build-up of dust and contaminants and are they easy to clean?	Yes Comments: Heating design will be in compliance with all relevant S be limited to stairwells and radiant panels will generally			Use of	N/A radiators	s will
32	Is the ventilation system designed in accordance with SHTM 03-01?	Comments: Ventilation design will be in compliance with all relevant each theatre.  Derogations from guidance include-  • Size of anaesthetic room from 19m2 to 17m2 and general anaesthesia.  • Ventilation parameters & practice issues required discussion with HFS.	ıs a resı	ult of spi	nal as o	pposed t	o
33	Is the ventilation system designed so that it does not contribute to the spread of infection within the healthcare facility?	Yes Comments: Ventilation design will be in compliance with all relevan	x t SHTM	No guidand	се	N/A	
34	Are the ventilation system components e.g. air handling, ductwork, grilles and diffusers designed for ease of cleaning?	Yes x No N/A  Comments:  Ventilation design will be in compliance with all relevant SHTM guidance. All relevant access facilities for maintenance will be provided including access ports to allow access for cleaning and fire dampers being accessible for testing.					
35	Are ventilation discharges located a suitable distance from intakes to prevent risk of contamination?	Yes Comments: Ventilation design will be in compliance with all relevan sited accordingly.	x t SHTM	No guidand	ce. Duc	N/A	l be
36	Does the design and operation of re circulation air	Yes	х	No		N/A	

	systems take into account of dilution of contaminates and	Comments:			
	space to be served? (UCV)	Ventilation design will be in compliance with all relevant SHTM guidance in terms of air			
		changes and filter requirement.			
37	Is the ventilation of theatres and isolation rooms in	Yes x No N/A			
	accordance with current guidance?	Comments:			
		Ventilation design will be in compliance with all relevant SHTM guidance.			
DEVE	LOPMENT STAGE 2: HAI-SCRIBE applied to the design				
	lanning stage of the development	Mark 'X' in the appropriate box			
	eering	mark A in the appropriate box			
38	Do means of control of pathogens consider whether	Yes x No N/A			
	·	Comments:			
	dilution or entrainment is more appropriate for particular	Ventilation design will be in compliance with all relevant SHTM guidance and entrainment			
	situations?	utilised where directed.			
39	Where the ventilation systems are used for removal of	Yes x No N/A			
	pathogens does their design and operation take account	Comments:			
	of infection risk associated with maintenance of the	Ventilation design will be in compliance with all relevant SHTM guidance			
	system?				
	Are specialised ventilation systems such as fume				
40	cupboards installed and maintained in accordance with	Yes x No N/A			
	manufacturer's instructions?	Comments:			
	mandiacturer s motractions:	N/A			
41	Lighting	Yes x No N/A			
	Is the lighting designed so that lamps can be easily	Comments: Luminaires have been specifically selected to suit the room type and functionality			
	cleaned with minimal opportunity for dust to collect?	with IP ratings assigned to suit the environment.			
42	Water Services	Yes x No N/A			
	Are water systems designed, installed and maintained in	Comments:			
1	accordance with current guidance?	Water systems to be designed/installed in accordance with SHTM 04-01.			

Comments:
Water systems to be designed/installed in accordance with SHTM 04-01.

		A water safety plan is required to be developed by Kier and submitted to the GJNH Water Safety Group.		
43	Are facilities available to enable special interventions for Legionella?	Yes x No N/A Comments: Water systems to be designed/installed in accordance with SHTM 04-01.		
44	Is the drainage system design, especially within the healthcare facility building, fit for purpose with access points for maintenance carefully sited to minimise HAI risk?	Yes x No N/A Comments: Water systems to be designed/installed in accordance with SHTM 04-01.		
DEVELOPMENT STAGE 2: HAI-SCRIBE applied to the design and planning stage of the development Engineering		Mark 'X' in the appropriate box		
45	Are surface mounted services avoided and services concealed with sufficient access points appropriately sited to ease maintenance and cleaning? (These services would include water, drainage, heating, medical gas, wiring, alarm system, telecoms, equipment such as light fittings, bedhead services, heat emitters.)	Yes x No N/A  Comments: All compliant to design guidance and best practice/mandatory requirements		
46	Pest Control Is the concealed service ducting designed, installed and maintained to minimise risk of pest infestation?	Yes x No N/A Comments:		
		Consideration is required re measures to minimise infestation of plant space.		
47	Maintenance Access  Does the design and build of the facility allow programmed maintenance of the fabric to ensure the integrity of the structure and particularly the prevention of water ingress and leaks and prevention of pigeon and other bird access?	Yes x No N/A Comments:		