

Table 4-1
Summary List of Safety-Related and SDCV or One-Step Accessible HSIs

Minimum Inventory HSIs	Guidance Section
Minimum set of HSIs that should be safety-related (designated SR in Table 4-1):	
Confirming indications (Reg. Guide 1.97 Type A), controls and immediate feedback indications for credited manual actions	4.1
Controls for manual system-level actuation of safety systems	4.2
Minimum set of HSIs that should be safety-related but are candidates for a graded approach to qualification, particularly regarding software QA/V&V (designated SR* in Table 4-1):	
Primary indications of performance for credited manual actions	4.1
Indications of the status of critical safety functions and fission product barriers (Reg. Guide 1.97 Types B and C)	4.2
Indications of safety system performance (if following Reg. Guide 1.97 Rev. 3 – Type D, Category 1)	4.2
Confirming indications, controls and immediate feedback indications, and performance indications for carrying out preferred manual safety success paths	4.3
Other post-accident monitoring indications (if following Reg. Guide 1.97 Rev. 3 – Type E, Category 1)	4.5
Minimum set of HSIs that can be nonsafety-related but should have supplemented or augmented quality (designated NSR* in Table 4-1):	
Prompting alarms for credited manual actions (new plants only)	4.1
Prompting alarms, confirming indications and manual controls needed for specific manual actions credited in the D3 evaluation (Points 1-3) for coping with CCFs	4.2
Safety function indications and alarms, and controls for system-level actuations credited for meeting BTP 7-19 (Point 4)	4.2
Safety parameter indications (SPDS)	4.7
Minimum set of HSIs that should be spatially dedicated, continuously visible (SDCV):	
Prompting alarms for credited manual actions	4.1
Confirming indications (at least one channel – Reg. Guide 1.97 Type A) for credited manual actions (see Note 1 below)	4.1
Controls and immediate feedback indications for credited manual actions – these may be one-step accessible if supported by HFE analyses	4.1
Performance alarms for credited manual actions	4.1
At least one of the redundant indications of the status of critical safety functions (Reg. Guide 1.97 Type B) (see Note 1 below)	4.2
At least one of the redundant indications of the status of fission product barriers and safety system operation (if following Reg. Guide 1.97 Rev. 3 – Types C and D, Category 1) (see Note 1 below)	4.2
Alarms indicating challenges to critical safety functions, fission product barriers and safety system operation	4.2
High-level summary indications and alarms for safety system actuation status	4.2
Controls for manual system-level actuation of safety systems	4.2
Prompting alarms for manual actions credited in the D3 evaluations per BTP 7-19 Points 1-3	4.2

Minimum Inventory HSIs	Guidance Section
Safety function indications and controls for system-level actuations credited for satisfying Point 4 of BTP 7-19	4.2
Performance alarms for preferred manual safety success paths	4.3
Performance alarms for preferred manual non-safety success paths	4.4
Other post-accident monitoring indications (if following Reg. Guide 1.97 Rev. 3 – Type E, Category 1)	4.5
Other post-accident monitoring alarms (Reg. Guide 1.97 Rev. 3 or 4, Type E)	4.5
System-level indications of safety system availability	4.6
Safety parameter indications (SPDS) – these may be one-step accessible if prompted by SDCV alarms	4.7
Alarms on safety parameters and other alarms for prompting pre-emptive safety actions (SPDS) (Note 2)	4.7
Other HSI resources that are outside regulatory review, but are shown to need enhanced accessibility based on appropriate HFE analyses (e.g., key indications, alarms or controls supporting plant power production or investment protection)	4.8
Notes: 1 The safety-related HSI can be selectable if a NSR HSI is provided that is highly reliable and SDCV.	