



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

Fluoroscopy Equipment Replacement

Project No: \_\_\_\_\_

| Code Ref.            | Requirements   | Location   |  | N/A | Office use only |  |
|----------------------|--|--|--|-----|-----------------|--|
|                      |  | Sheet No.  | Ref./Det. No.  |     | Complies        |  |
|                      |  |  |  |     |                 |  |
| Architectural        |  |  |  |     |                 |  |
| General Requirements |  |  |  |     |                 |  |
| 1.0                  | Project scope identified                                     | Clearly identify the scope of the work.                        |  |     |                 |  |
| 1.1                  | Sheet Index correct  |  |  |     |                 |  |
| 1.2                  | OSHPD # on all sheets  |  |  |     |                 |  |
| 1.3                  | Architect/EOR's stamp and signature on their sheets          | CAC 7-115(b)   |  |     |                 |  |
| 1.4                  | Primary Architect/EOR's signature on all sheets              | CAC 7-115(a)   |  |     |                 |  |
| 1.5                  | Intent Note included in General Notes                        | CAC 7-153  |  |     |                 |  |
| 1.6                  | Code references correct                                      | CAN 1-0  |  |     |                 |  |
| 1.7                  | Project location plan provided                               | Provide vicinity map and site map showing location of project. |  |     |                 |  |
| 1.8                  | Building setbacks and adjacent buildings shown if applicable |  |  |     |                 |  |
| Functional Program   |  |  |  |     |                 |  |
| 2.0                  | Provide a Functional Program                                 | CAC 7-119  | Applies to all scopes and disciplines of the project that affect patient care directly or indirectly, by means of new construction, additions, or modifications to specific hospital departmental function which form an integral part of the facility. Projects that only involve equipment replacement, fire safety upgrades or renovations that will not change the occupancy, function, or use of existing space shall not require a function program. |     |                 |  |
| 2.1                  | Executive Summary  | CAC 7-119(b)   | Purpose of project. Project type and size. Construction type/occupancy and building systems.   |     |                 |  |
| 2.2                  | Content  | CAC 7-119(c)   | Project components and scope. Indirect support functions. Operational requirements. Environment of care requirements. Architectural space and equipment requirements. Technology requirements. Short- and long-term planning considerations.   |     |                 |  |





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|           |               |     | Y               | N |

**Accessibility for Existing Building and Facilities**

|     |   |           |   |  |  |  |  |
|-----|---|-----------|---|--|--|--|--|
| 3.0 | Path of travel requirements in alterations, addition and structural repairs met | 11B-202.4 | 1. A primary entrance to the building or facility,                                  |  |  |  |  |
|     |   |           | 2. Toilet and bathing facilities serving the area (public M/F, staff M/F, patient), |  |  |  |  |
|     |   |           | 3. Drinking fountains serving the area,   |  |  |  |  |
|     |   |           | 4. Public telephones serving the area, and  |  |  |  |  |
|     |   |           | 5. Signs.   |  |  |  |  |

**General Architectural Requirements**

|     |   |  |  |  |  |  |  |
|-----|---|--|--|--|--|--|--|
| 4.0 | Floor plans   |  | Drawn to scale showing room numbers and names using code terminology   |  |  |  |  |
| 4.1 | Rooms and corridors                                 |  | Fully dimensioned  |  |  |  |  |
| 4.2 | Door and windows                                    |  | Dimensions shown and/or scheduled  |  |  |  |  |
| 4.3 | Accessibility                                       |  | Clearances, dimensions shown   |  |  |  |  |
| 4.4 | Reflected Ceiling Plans                             |  | Show ceiling types and ceiling construction detail and ceiling heights in all areas                          |  |  |  |  |
| 4.5 | Finish Schedule                                     |  | Demonstrate compliance with code requirements  |  |  |  |  |
| 4.6 | Building Sections and Exterior elevations           |  |  |  |  |  |  |
| 4.7 | Interior elevations                                 |  |  |  |  |  |  |
| 4.8 | Accessibility of wall mounted devices on elevations |  | Dimension mounting heights   |  |  |  |  |
| 4.9 | Wall sections                                       |  | Show finishes, fire ratings, stud sizes and spacing, stud gauge, and wall attachment to supporting structure |  |  |  |  |





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**Specific Architectural Requirements for Fluoroscopy Equipment Replacement**

|     |   |             |  |  |  |  |  |
|-----|---|-------------|--|--|--|--|--|
| 5.0 | Minimum requirements for Imaging Department | 1224.18.1   | Hospital shall provide a minimum of:   |  |  |  |  |
|     | One fluoroscopy room                        | Item 1      | One fluoroscopy room, which can also provide x-ray examination services.   |  |  |  |  |
|     | Space for processing images.                | Item 2      | Space for processing images.   |  |  |  |  |
|     | Toilet Room                                 | Item 3      | Toilet Room adjoining each fluoroscopy room in addition to other toilet room facilities located adjacent to or in the immediate vicinity.  |  |  |  |  |
|     | Office                                      | Item 4      | An office or other suitable area for viewing and reporting radiographic examination.   |  |  |  |  |
|     | Storage Spaces                              | Item 5      | Storage spaces for all image equipment, supplies and copies of reports.  |  |  |  |  |
|     | Handwashing fixture                         | Item 6      | Handwashing fixtures located within the unit.  |  |  |  |  |
|     | Dressing Room                               | Item 7      | Dressing room facilities.  |  |  |  |  |
| 5.1 | Radiation protection                        | 1224.18.1.1 | A certified physicist or other qualified expert shall specify the type, location, and amount of radiation protection to be installed in accordance with the final approved department layout and equipment selections. |  |  |  |  |
| 5.2 | Support spaces                              | 1224.18.7   | The following spaces are common to the imaging service area and are minimum requirements unless stated otherwise:  |  |  |  |  |
| 5.3 | atient's toilet room(s)                     | 1224.18.7.1 | In service spaces with procedure rooms that do not have dedicated patient toilets, provide a minimum of one patient toilet room within the service space.  |  |  |  |  |
| 5.4 | Patient dressing rooms                      | 1224.18.7.2 | Dressing rooms shall be provided convenient to the imaging rooms.  |  |  |  |  |
| 5.5 | Staff facilities                            | 1224.18.7.3 | In service space of three or more procedure rooms, staff toilet room(s) internal to the service space shall be provided.   |  |  |  |  |
| 5.6 | Film storage (active)                       | 1224.18.7.4 | If film systems are used, provide the following:   |  |  |  |  |





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|                    |             |  |           |               |     | Y               | N |
| Cabinet or shelves | Item 1      | A room with cabinet or shelves for filing patient film for immediate retrieval shall be provided.        |           |               |     |                 |   |
| Storage facilities | Item 2      | Storage facilities for unexposed film which shall include protection of film against exposure or damage. |           |               |     |                 |   |
| 5.7 Locked storage | 1224.18.7.5 | Provision shall be made for locked storage of medications and drugs.                                     |           |               |     |                 |   |

| Fire/Life Safety  |             |  |  |  |  |  |  |
|---|-------------|--|--|--|--|--|--|
|   |             |  |  |  |  |  |  |
| Fire rated separations shown for horizontal and vertical assemblies | CBC 701.1   | Identify fire rated construction by type to identify opening protection.   |  |  |  |  |  |
| Lead shielding in rated walls                                       | CBC 703.2   | Identify rated wall design that incorporates lead shielding.   |  |  |  |  |  |
| Direct Access to a corridor   | CBC 407.4.1 | Habitable rooms shall exit directly to a corridor. Habitable rooms may be located in a suite. See CAN 2-407.4.1. |  |  |  |  |  |
| Fire rated penetrations   | CBC 714.1   | Demonstrate how penetrations of fire rated construction will be protected.                                       |  |  |  |  |  |
| Fire protection systems   | CBC 901.2   | Demonstrate systems not affected by new work, show compliance for modifications to systems.                      |  |  |  |  |  |
| Interior finishes   | CBC 801.1   | Provide flame spread and smoke development rating  |  |  |  |  |  |
| HVAC  | CBC 717.1   | Penetrations of rated walls compliant  |  |  |  |  |  |





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|  |                              |  |               |     |                 |  |
| Structural   |                              |  |               |     |                 |  |
| Enforceable Codes                                    | CAN 1-0                      | Indicate the governing codes for the project.  |               |     |                 |  |
| Supports and Attachments                             | CBC 1616A /ASCE 7 Chapter 13 | Provide supports and attachment design   |               |     |                 |  |
| Special Seismic Certification                        | CBC 1705A.12.4               | Provide Special Seismic Certification/Certificate of Compliance by the Manufacturer                                |               |     |                 |  |
| Special Inspection for Special Seismic Certification | CBC 1705A.11.4               | Specify special inspection requirements for Seismic Certification  |               |     |                 |  |
| Special Inspection for Seismic Resistance            | CBC 1705A.11                 | Specify nonstructural components, supports, and attachments special inspection requirements for Seismic resistance |               |     |                 |  |
| Evaluation of Primary Structure                      | CBC 3404A                    | Provide verification that existing structure is adequate   |               |     |                 |  |





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|                                  |   |           |               |     |                 |  |
| Electrical                       |   |           |               |     |                 |  |
| Title 24 Part 2 (CBC) 107.2      | Provide a list of symbols and abbreviations used on plans and their meaning   |           |               |     |                 |  |
| Title 24 Part 3 (CEC) 110.2      | All electrical equipment shall be listed, labeled, or certified for its use by a Nationally Recognized Testing Laboratory (NRTL) as recognized by the U.S. Department of Labor, Occupational Safety and Health Administration.                |           |               |     |                 |  |
| Title 24 Part 2 (CBC) 107.2      | Provide specifications for all equipment and materials.   |           |               |     |                 |  |
| Title 24 Part 1 (CAC) 7-115      | Electrical plans and specifications must stamped and signed by the electrical engineer of record and signed by the architect or engineer in responsible charge for the project.   |           |               |     |                 |  |
| OSHPD CANS/PINs CAN 1            | Indicate the governing codes for the project.   |           |               |     |                 |  |
| Title 24 Part 2 (CBC) 107.2      | Room/area names and numbers on all plan sheets.   |           |               |     |                 |  |
| Title 24 Part 2 (CBC) 107.2      | Provide a single line diagram of the area of electrical system that is being effected. Clearly identify the normal and essential electrical systems (i.e. Life Safety, Critical, Equipment).  |           |               |     |                 |  |
| Title 24 Part 2 (CBC) 107.2      | Site plan with area names showing electrical equipment locations, electrical utility runs, and site lighting.   |           |               |     |                 |  |
| Title 24 Part 3 (CEC) 110.3(B)   | Listed or labeled equipment shall be installed and used in accordance with any instructions included in the listing or labeling.  |           |               |     |                 |  |
| Title 24 Part 2 (CBC) 1705A.12.4 | Special seismic qualification is required for radiography and fluoroscopy system in fluoroscopy rooms   |           |               |     |                 |  |
| OSHPD CANS/PINs PIN 38           | For each affected panel, perform load capacity verification.  |           |               |     |                 |  |
| Title 24 Part 3 (CEC) 517.13(A)  | All branch circuits serving patient care areas must be installed in a metal raceway system or cable having a metallic armor or sheath assembly. The outer system must be listed as an equipment grounding conductor (redundant ground paths). |           |               |     |                 |  |
| Title 24 Part 3 (CEC) 517.13(B)  | An insulated copper grounding conductor must be provided with branch circuits serving patient care areas  |           |               |     |                 |  |
| Title 24 Part 3 (CEC) 517.30(E)  | All Life Safety and Critical Branch receptacles and light switches shall have a distinctive marking or color to identify they are on emergency system.  |           |               |     |                 |  |
| Title 24 Part 3 (CEC) 517.72(A)  | Provide a X-ray disconnecting means of adequate capacity for at least 50% of the momentary rating or 100% of the long time rating, whichever is greater.  |           |               |     |                 |  |





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| Title 24 Part 3 (CEC) 517.72(C)                 | The x-ray disconnecting means must be operable from a location that is readily accessible from the x-ray control.   |           |               |     |                 |   |
| Title 24 Part 3 (CEC) 517.73(A)(1)              | The x-ray system branch circuit conductors and rating of overcurrent protective devices shall not be less than 50% of the momentary rating or 100% of the long time rating, whichever is greater. |           |               |     |                 |   |
| Title 24 Part 3 (CEC) 517.75                    | All x-ray equipment (new and relocated) must be listed, labeled, or certified by a Nationally Recognized Testing Laboratory in accordance with CEC 110.2.   |           |               |     |                 |   |
| Title 24 Part 3 (CEC) 517.34(B)(1.1) /CMC 326.4 | Provide an equipment system power source for the ventilation equipment serving fluoroscopy.   |           |               |     |                 |   |
| Title 24 Part 2 (CBC) 107.2                     | Provide a list of symbols and abbreviations used on plans and their meaning   |           |               |     |                 |   |





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|                     |                    |   |               |     |                 |  |
| Plumbing            |                    |   |               |     |                 |  |
| Medical gases       | NFPA-99, Chapter 5 | Although there is no code requirements for medical gases in a fluoroscopy room, any additions or modifications to existing medical gas systems will require compliance with NFPA-99, Chapter 5. |               |     |                 |  |
| Handwashing fixture | CPC Table 4-2      | See Architectural requirements above. Provide HW, CW, W and V piping as necessary to comply with CPC 613.6  |               |     |                 |  |
| Toilet room         | CPC Table 4-2      | See Architectural requirements above. Provide HW, CW, W and V piping as necessary to comply with CPC 613.6  |               |     |                 |  |

| Testing, Inspection, and Observation Form |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Current version is being used             | Verify year at top of TIO form matches code year of project.  |  |  |  |  |  |
| Content                                   | Have each discipline identify tests, inspections and observations that are required.  |  |  |  |  |  |
| Responsible Firm or Individual            | Identify who will be responsible for performing the test, inspection or observation. If unknown, X the TBD column. Do not assign to the IOR and . |  |  |  |  |  |
| Signature                                 | Signed by Engineer of Record  |  |  |  |  |  |

| Specifications |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|
|                | Project name matches                         |  |  |  |  |  |
|                | OSHPD # on cover                             |  |  |  |  |  |
| CAC 7-115(b)   | EOR's stamp and signature on signature sheet |  |  |  |  |  |
| CBC 107.2.1    | Sheet index matches sections provided        |  |  |  |  |  |
|                | Code references current                      |  |  |  |  |  |

