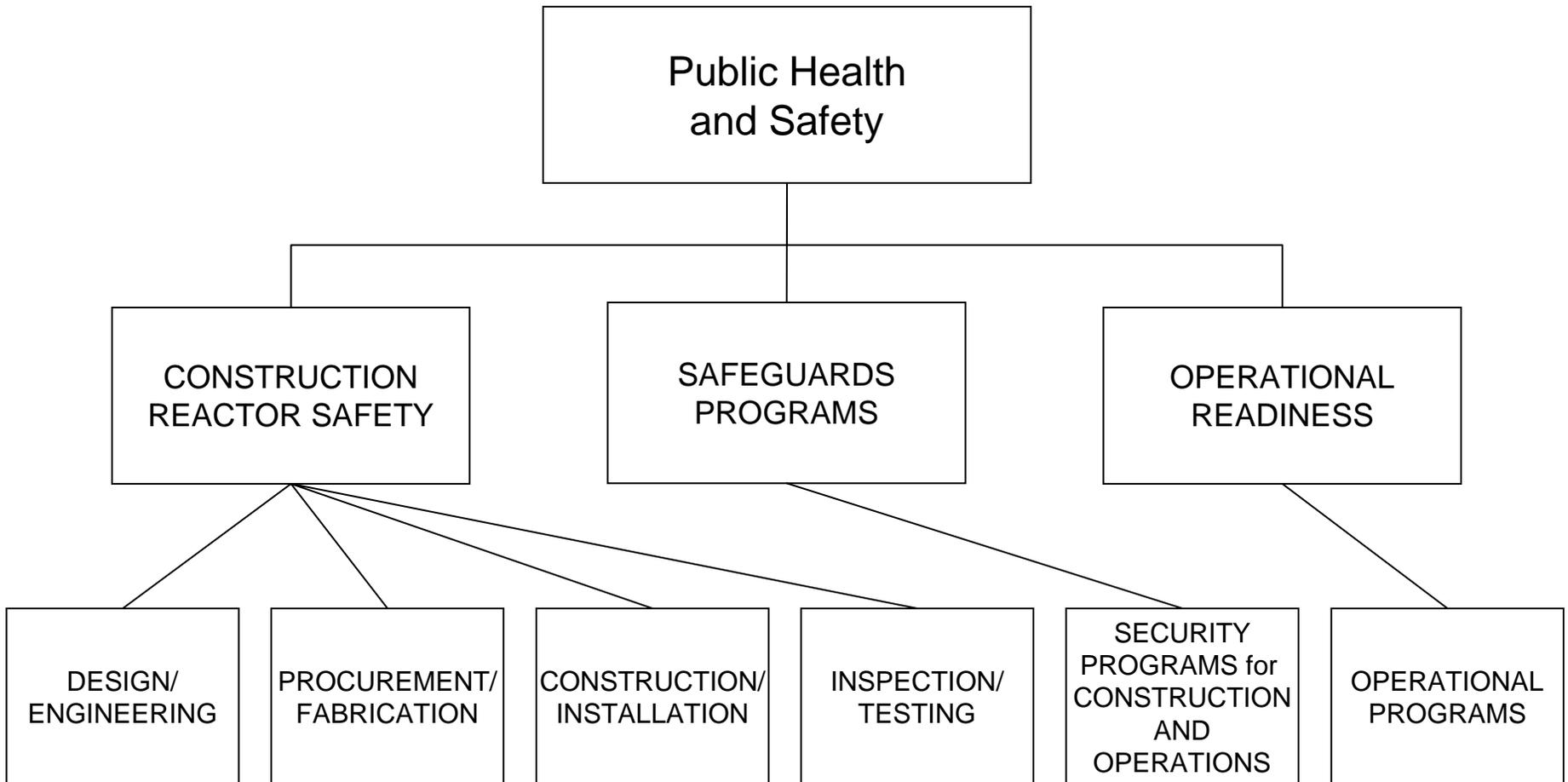


# CONSTRUCTION REACTOR OVERSIGHT PROCESS REGULATORY FRAMEWORK



**DESIGN/ENGINEERING  
OBJECTIVE AND ATTRIBUTES**

To independently assess the effectiveness of the licensee's methods to (1) effectively translate high-level certified design information into detailed design and construction drawings and procedures; and (2) implement an effective design change process

**PROCESS  
CONTROL**

**PROCEDURE  
QUALITY**

CORNERSTONE

DESIGN/  
ENGINEERING

ATTRIBUTES

PROCESS  
CONTROL

PROCEDURE  
QUALITY

AREAS TO  
MEASURE

ITAAC

Site-specific  
design

Design  
translation

Design changes

Applicable  
Criteria from  
Appendix B

# PROCUREMENT/FABRICATION OBJECTIVE AND ATTRIBUTES

To independently assess the effectiveness of the licensee's methods to (1) procure material, equipment and services in quality manner, and (2) control materials, parts, and components during fabrication

PROCESS  
CONTROL

MATERIAL  
CONTROL

PROCEDURE  
QUALITY

CORNERSTONE

PROCUREMENT/  
FABRICATION

ATTRIBUTES

PROCESS  
CONTROL

PROCEDURE  
QUALITY

PROCEDURE  
QUALITY

AREAS TO  
MEASURE

ITAAC

Commercial  
grade  
dedication

Receipt  
inspection

Supplier  
evaluation

Applicable  
Criteria from  
Appendix B

**CONSTRUCTION/INSTALLATION  
OBJECTIVE AND ATTRIBUTES**

To independently assess the effectiveness of the licensee's programs and processes developed and implemented to ensure the construction and installation of plant components in a quality manner

**PROCESS  
CONTROL**

**MATERIAL  
CONTROL**

**PROCEDURE  
QUALITY**

CORNERSTONE

CONSTRUCTION/  
INSTALLATION

ATTRIBUTES

PROCESS  
CONTROL

MATERIAL  
CONTROL

PROCEDURE  
QUALITY

MEASURE

ITAAC

Structural

Mechanical

Electrical

TO

AREAS

Applicable  
Criteria from  
Appendix B

Welding

Storage

10 CFR 50.55e

**INSPECTION/TESTING  
OBJECTIVE AND ATTRIBUTES**

To independently assess the effectiveness of the licensee's programs and processes developed and implemented to inspect and test programs, facilities and structures, systems, and components.

**PROCESS  
CONTROL**

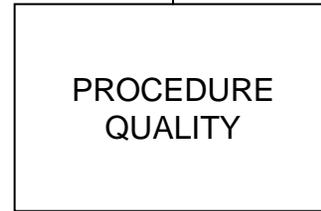
**MATERIAL  
CONTROL**

**PROCEDURE  
QUALITY**

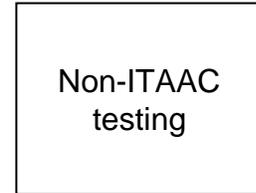
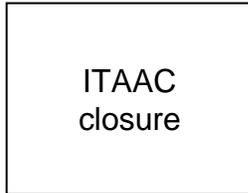
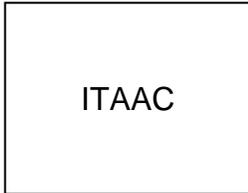
CORNERSTONE



ATTRIBUTES

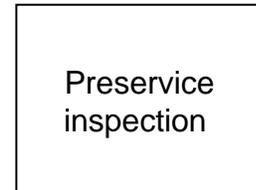
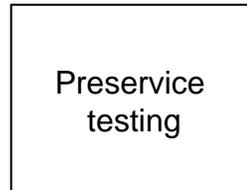
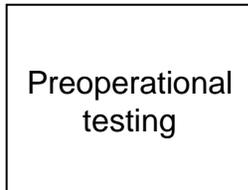
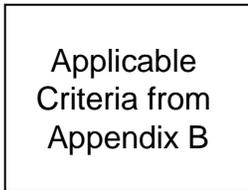


MEASURE



TO

AREAS



OPERATIONAL PROGRAMS  
OBJECTIVE AND ATTRIBUTES

To independently assess the license's  
capability to safely operate the facility

Program  
Effectiveness

Training and  
Qualifications

Plant Facilities  
and Equipment

CORNERSTONE

**OPERATIONAL  
PROGRAMS**

ATTRIBUTE

**PROGRAM  
EFFECTIVENESS**

TO  
MEASURE

**Radiation  
Protection**

**Process and  
Effluent  
Monitoring**

**Emergency  
Preparedness**

**Fire Protection**

**Quality  
Assurance  
(Operations)**

**Inservice  
Inspection**

**Inservice  
Testing**

**Environmental  
Qualification**

**Reactor  
Operator  
Requalification**

**Reactor  
Operator  
Training**

AREAS

**Containment  
Leak Rate  
Testing**

**Non-Licensed  
Plant  
Staff Training**

**Reactor  
Vessel Material  
Surveillance**

**Maintenance  
Rule**

**Motor  
Operated  
Valves**

CORNERSTONE

**OPERATIONAL  
PROGRAMS**

ATTRIBUTE

**TRAINING  
AND  
QUALIFICATIONS**

MEASURE

**REACTOR  
OPERATOR  
LICENSE  
EXAMINATIONS**

**REACTOR  
OPERATOR  
REQUALIFICATION  
TRAINING**

**NON-LICENSED  
STAFF TRAINING**

AREAS TO



CORNERSTONE

**OPERATIONAL  
PROGRAMS**

ATTRIBUTE

**PLANT FACILITIES  
AND  
EQUIPMENT**

AREAS TO MEASURE

**SIMULATOR**

**EMERGENCY  
RESPONSE  
FACILITIES  
(NON-ITAAC)**

**EMERGENCY  
RESPONSE  
EQUIPMENT  
(NON-ITAAC)**



# SECURITY PROGRAMS FOR CONSTRUCTION AND OPERATIONS OBJECTIVES AND ATTRIBUTES

To provide assurance that (1) construction activities are not adversely impacted due to Fitness-for-Duty issues; (2) malicious acts during construction could not be used later for radiological sabotage involving special nuclear material; and (3) the licensee's security programs use a defense-in-depth approach and can protect against the design basis threat of radiological sabotage from external threats, and the theft or loss of radiological materials prior to the transition to the final security operational phase.

SECURITY  
CONSTRUCTION  
PROGRAM

SECURITY  
OPERATIONAL  
PROGRAM

ACCESS  
AUTHORIZATION

ACCESS  
CONTROL

PHYSICAL  
PROTECTION

CONTINGENCY  
RESPONSE

MATERIAL  
CONTROL AND  
ACCOUNTING

CYBER  
SECURITY

CORNERSTONE

ATTRIBUTE

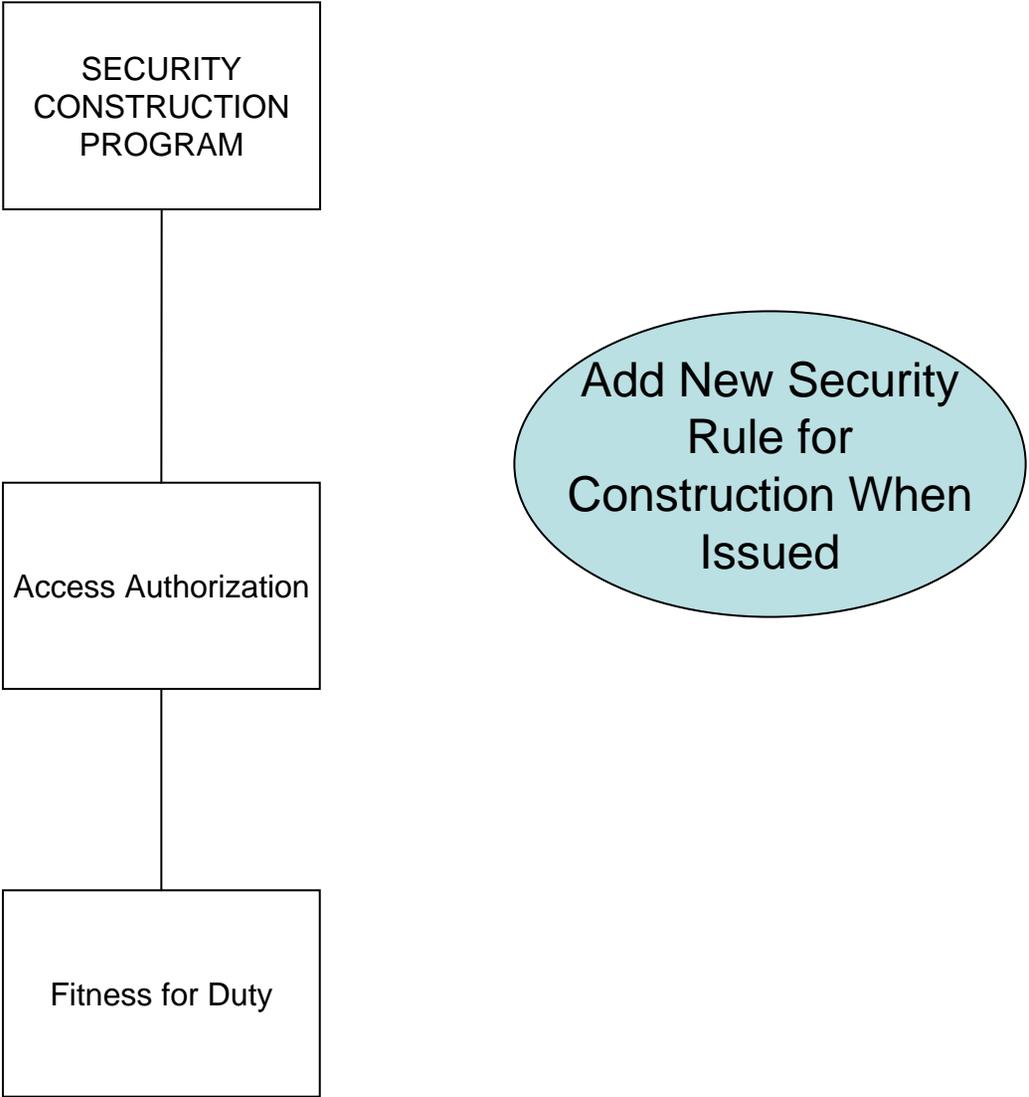
AREAS TO MEASURE

SECURITY  
CONSTRUCTION  
PROGRAM

Access Authorization

Fitness for Duty

Add New Security  
Rule for  
Construction When  
Issued



CORNERSTONE

SECURITY  
OPERATIONAL  
PROGRAM

ATTRIBUTES

Physical  
Protection  
System

Access  
Authorization

Access  
Control

Response to  
Contingency  
Events

Material Control  
and  
Accounting

Cyber  
Security

AREAS TO MEASURE

Personnel Screening;  
Behavior Observations;  
Fitness for Duty

Protective  
Strategy  
Evaluation

Protection of Systems and  
Networks;  
Cyber Security Program;  
Plan and Procedures

Protected Areas;  
Vital Areas  
(barriers, alarms,  
assessment)

Search;  
Identification

Records;  
Reports;  
Procedures;  
Inventory;