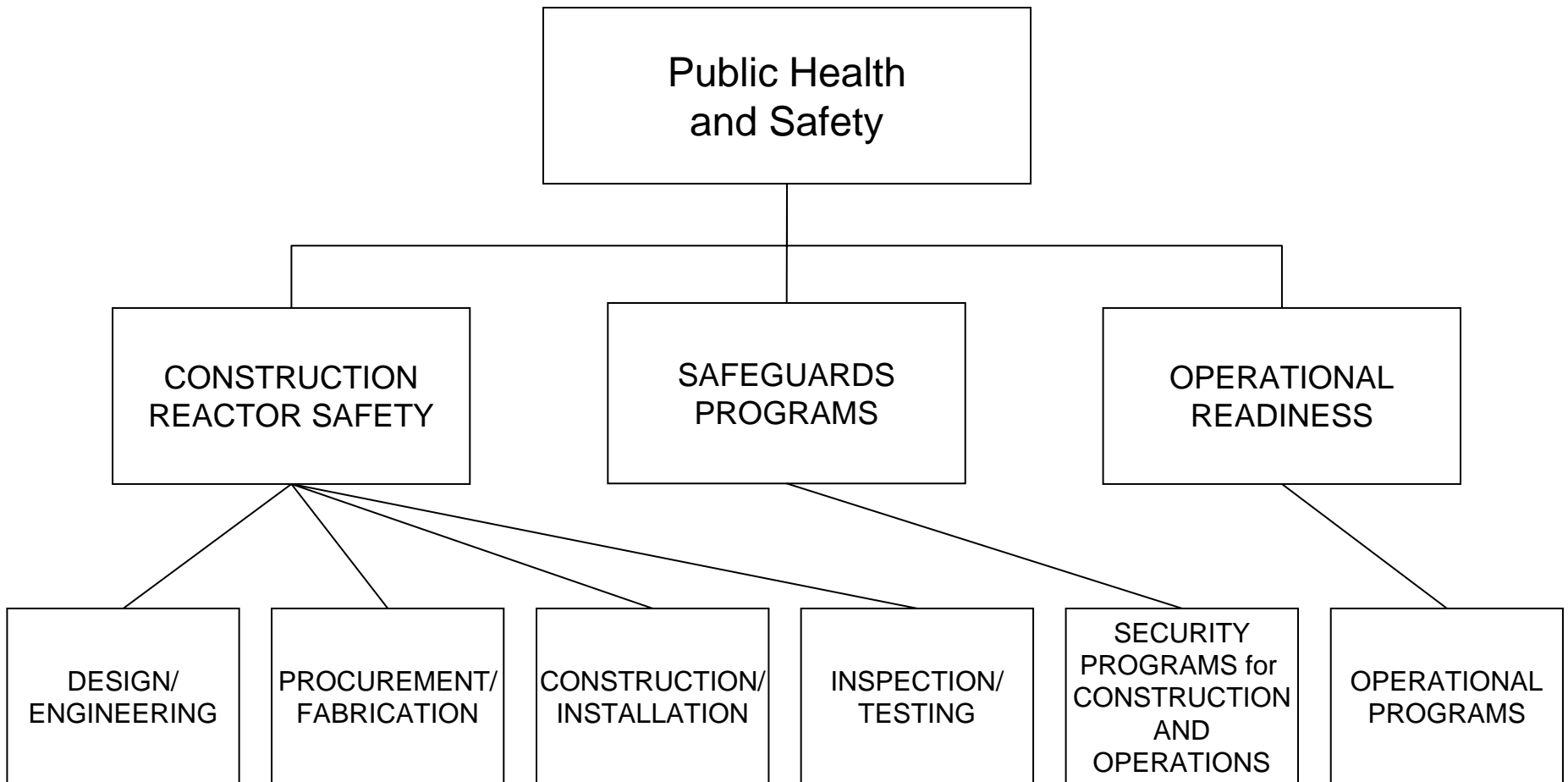


CONSTRUCTION REACTOR OVERSIGHT PROCESS REGULATORY FRAMEWORK



**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**

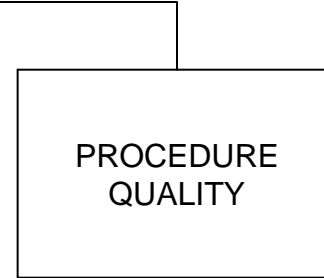
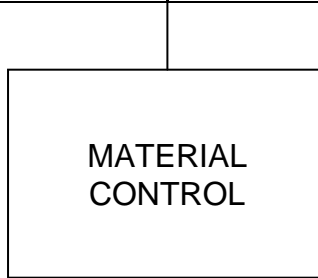
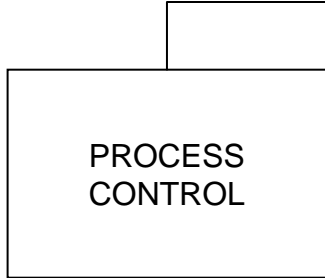
**MATERIAL
CONTROL**

**PROCEDURE
QUALITY**

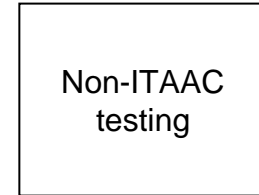
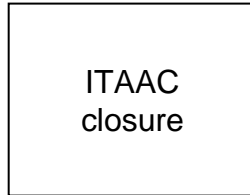
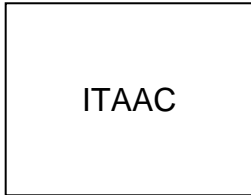
CORNERSTONE



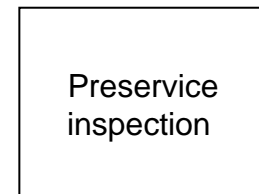
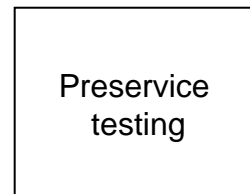
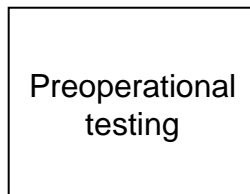
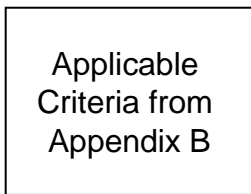
ATTRIBUTES

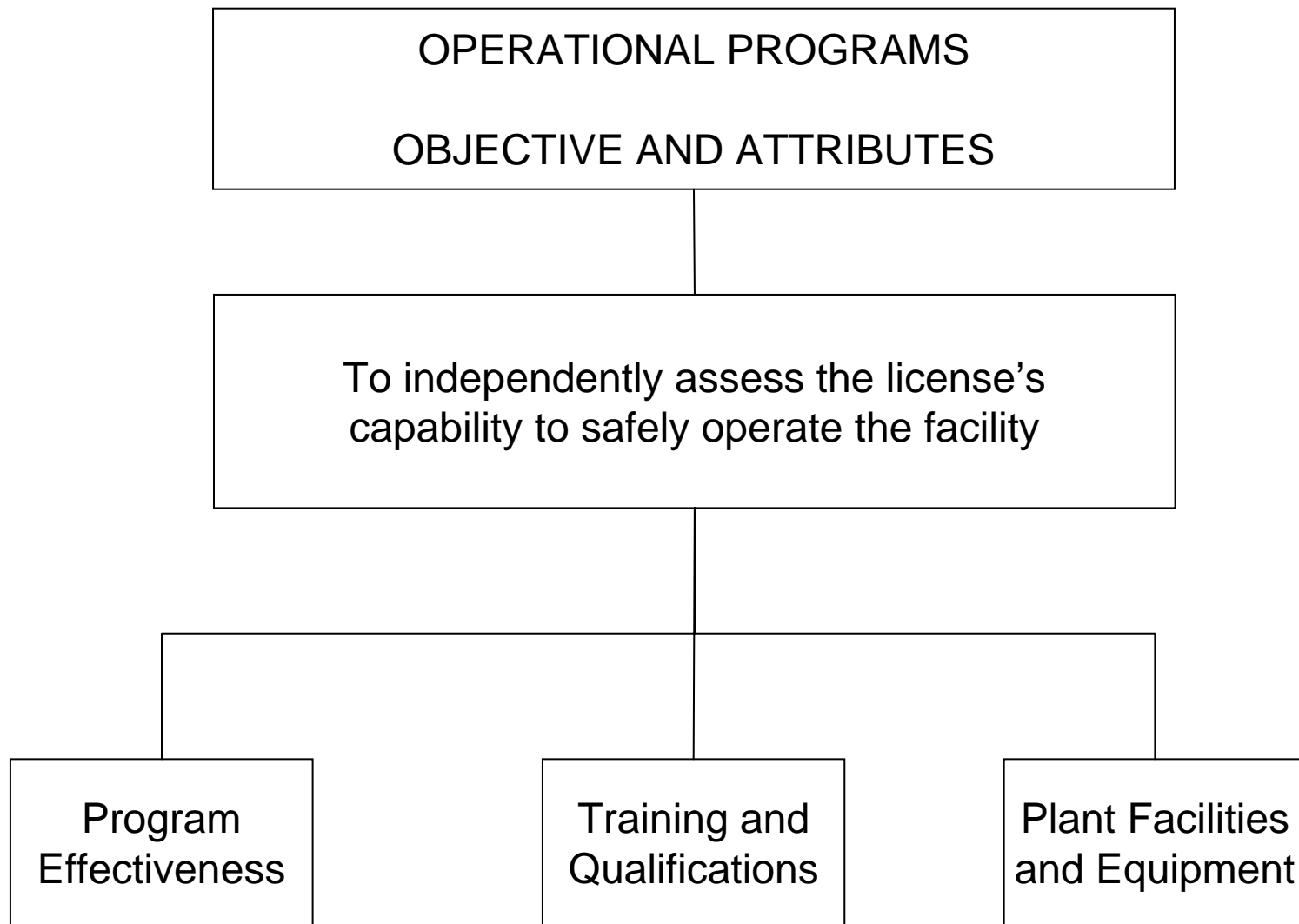


MEASURE



AREAS TO





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

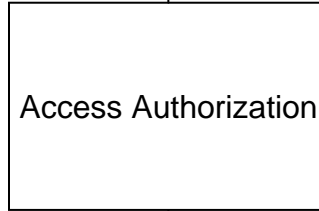
MATERIAL
CONTROL AND
ACCOUNTING

CYBER
SECURITY

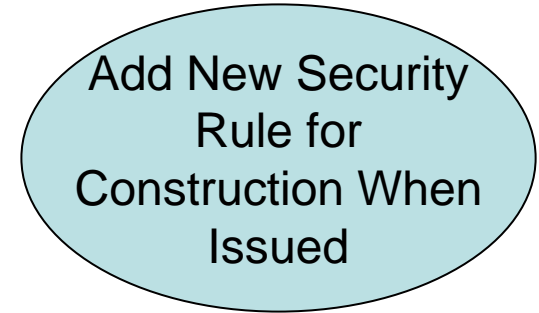
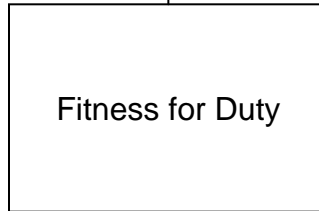
CORNERSTONE



ATTRIBUTE



AREAS TO MEASURE



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;