

CFSI Controls and Prevention Measures

“Protecting Our Mission by Preventing CFSI”



Safety Message



Accountability at all levels

From leadership to Suppliers,
Every individual, owns
responsibility for nuclear safety.

Questioning and Vigilance

We challenge assumptions, remain
alert to the unexpected, and raise
concerns without hesitation.

Conservative, Safety-First Decisions

Choices are guided by safety above
cost, schedule, or convenience

Learning & Continuous Improvement

We turn challenges, mistakes, and
near-misses into opportunities to
strengthen our resilience.



What is CFSI ?

CFSI is an acronym of Counterfeit, Fraudulent, and Suspect Items.

CFSI is the opposite term of **Authentic Item**.

What is Authentic Item?



Items that are manufactured by the original manufacturer or an entity with the legal right to do so.





QA-REF-0002 - Counterfeit, Fraudulent, and Suspect Items (CFSI) Prevention Overview

The CFSI Program prevents Counterfeit, Fraudulent, or Suspect Items from entering Barakah NPP as defined in QA-REF-0002:



Key activities: Verification of material authenticity.
Supplier and manufacturer evaluation.
Case investigation and reporting.



Prevention Measures:
CFSI clauses in all procurement contracts.
Supplier and contractor compliance required.
Continuous training and awareness. Industry updates cascaded to the supply chain.



CFSI Prevention and QA Integration

CFSI requirements embedded in QA Manual and cascaded across PSC, ENG, and MNT

1

2

Culture of vigilance and shared responsibility

Annual CFSI process evaluation within QA Program Review

3

4

Industry feedback integrated through FANR and EPRI data





CFSI DEFINITION

Counterfeit

Intentionally manufactured or altered to imitate a legitimate product without the legal right to do so.

Fraudulent

Intentionally misrepresented with intent to deceive.

Suspect

A suspect item is one in which there is an indication by visual inspection, testing, or other information that it may not conform to established Government or industry-accepted specifications or national consensus standards.



Expired or Misrepresented

Expired, end-of-life, refused parts, fake branding

Unreliable Sources

Unauthorized brokers, refurbished or untested parts

Fraudulent Documentation

Fake certificates, false quality claims.

FORMS OF CFSI



How to Detect, Prevent and Control CFSI

P

Emphasis on Key Preventive Measures:

D

Important Methods of Detecting CFSI:

C

Control the item to ensure that it is not used and that it is addressed:

Prevention

- Education and training for all involved personnel.
- Request information from suppliers on known CFSI issues.
- Enhanced qualification of suppliers.
- Clear specifications and contractual requirements.
- Enhance and assess supplier awareness.
- Identification of "At-Risk" Procurements.

Detection

- Performing vigilant inspections to detect CFSI through:
 - Performing source inspections of complex equipment prior to acceptance.
 - Performing receipt inspections by trained QA and Warehouse staff.
 - Pre-installation inspections to identify any discrepancies between items being installed and items being removed.
- Utilizing positive identification / authentication techniques through manufacturers.

Control

- Documented process for addressing a suspect item incident.
- Identification of suspected CFSI.
- Quarantine suspect items.
- Enter incident in corrective action system.
- Notify manufacturer and obtain authentication information.
- Report to industry CFSI database and Regulatory.



Did CFSI Enter Barakah?

YEAR	2020	2021	2022	2023	2024	2025	TOTAL
Investigation	9	7	23	10	11	16	75 Inv.
Confirmed CFSI	2	2	2	2	0	7	15 Cases
	TR class	TR / S class	Mixed / S class	TR / S class		T/R class..	



What is Your Role in CFSI

- Our goal is to prevent the entry and installation of CFSI.
- Ensure that management is aware of the threat posed by CFSI.
- Share & review OE associated with suspect items.
- Ensure CFSI clauses are included within contracts.
- Identify and evaluate non-identical replacements for obsolete items.
- Identify “at-risk” procurements and implement tailored inspection & testing as appropriate.
- Award procurements to authorized distributors or manufacturer whenever possible.
- Include CFSI related criteria and questions during supplier audits.



THANK YOU

Join Us At The CFSI KIOSK For Real CFSI Examples