

Bureau of Safety and Environmental Enforcement

BSEE BAST Determination Process

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Association

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"To promote safety, protect the environment and conserve resources offshore through vigorous regulatory oversight and enforcement."

What BAST?

Outer Continental Shelf Lands Act (OCSLA)

"..on all new drilling and production operations and, wherever practicable, on existing operations, the use of the best available and safest technologies which the Secretary determines to be economically feasible, wherever failure of equipment would have a significant effect on safety, health, or the environment, except where the Secretary determines that the incremental benefits are clearly insufficient to justify the incremental costs of utilizing such technologies." (43 U.S.C. 1347(b))

Development of BAST Process

Deepwater Horizon investigations

Ocean Energy Safety Advisory Committee - Federal Advisory Committee Act

Identify and prioritize technologies;

Include expertise from all sectors;

Not endorse specific products but provide a basis for establishing appropriate performance standards;

Focus on technologies, equipment, and/or processes that are most critical for safe operation;

Evolve as new technologies develop.

BAST Program Objectives

Compliance with statutory mandate

Focus on technological solutions to safety issues

Focus on critical safety equipment

Establish performance levels based on evaluation of available technology

Consistent and verifiable testing

Transparent process

Stakeholder engagement

Satisfies cost/benefit

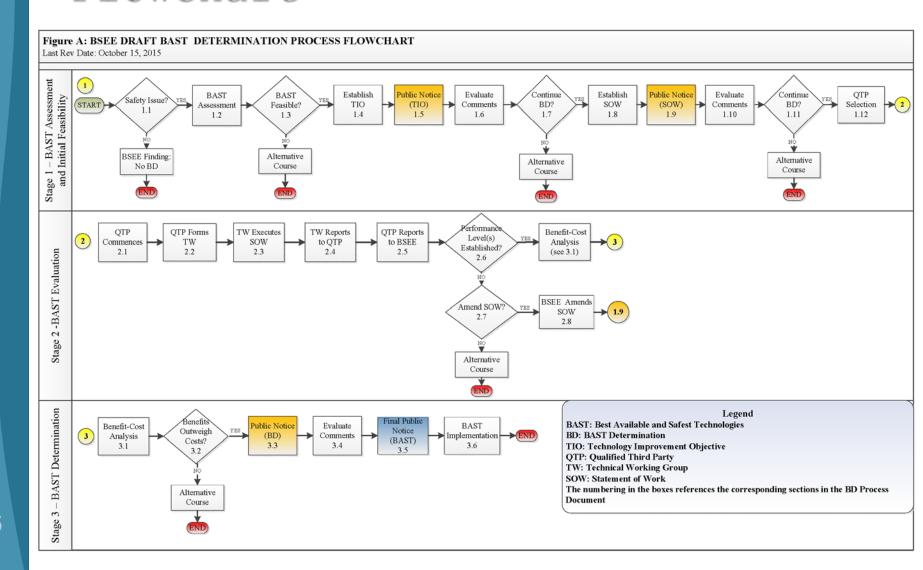
BAST will NOT result in:

Prescriptive requirements

An automatic phase-out of existing technology

An automatic review of existing systems and technology

BAST Determination Process Flowchart



BAST Determination Process Overview

Stage 1 - BAST Assessment & Initial Feasibility

- BSEE evaluates circumstances leading to a BD
- BSEE drafts a Technology Improvement Objective (TIO)
- BSEE establishes Statement of Work (SOW)
- BSEE issues Public Notices requesting comments
- BSEE selects Qualified Third Party (QTP)

Stage 2 - BAST Evaluation

- QTP manages evaluation
- QTP forms Technical Workgroups (TW)
- TW executes SOW
- BSEE reviews findings from QTP & TW

Stage 3 -BAST Determination

- BSEE conducts economic Benefit-Cost Analysis (BCA)
- BSEE issues Public Notice requesting comments
- BSEE issues Final Public Notice
- BAST requirement needs to be implemented on the OCS

BAST Determination Process Stage 1 - BAST Assessment and Initial Feasibility

Annual assessment by Director to determine if safety issues (incidents, accidents, near misses) warrant BD

If a Safety issue has been identified, BSEE conducts an assessment to determine if a BD could resolve the issue by evaluating:

- Technology Failures
- Improvements in Safety
- Availability of Technology
- BSEE Resources
- Economic Feasibility (Initial)

BAST Determination Process Stage 1 - BAST Assessment and Initial Feasibility

BSEE develops a TIO explaining the safety issue and the improvement agency is seeking.

BSEE solicits comments through one of the following:

- Notice to Lessees (NTL)
- www.BSEE.gov
- Federal Register
- Public Forum

BAST Determination Process Stage 1 - BAST Assessment and Initial Feasibility

BSEE issues SOW (TIO, tasks, timeline) and solicits comments

BSEE contracts with QTP to implement SOW

Who can be a QTP?

- OESI
- Standard Development Organizations (SDO)
- Certifying Entities
- National/Private Labs
- Other Agencies

BAST Determination Process Stage 2 - BAST Evaluation

QTP responsibilities include:

Form TW(s) to evaluate solutions to SOW

Identify scope of testing/additional data needed by TW

Provide oversight of third party testing/statistical analysis

Develop budgets/timelines

Perform industry outreach

Review TW work, reports, & ensures SOW is addressed

Provide BSEE with TW final report

TW composed of individuals with appropriate technical expertise for task at hand

BAST Determination Process Stage 2 - BAST Evaluation

TW develops Functional (Operational) Requirements (FoR)

FoR may include:

- -physical requirements
- -environmental conditions
- -inspection/maintenance concerns
- -quality issues
- -other



BAST Determination Process Stage 2 - BAST Evaluation

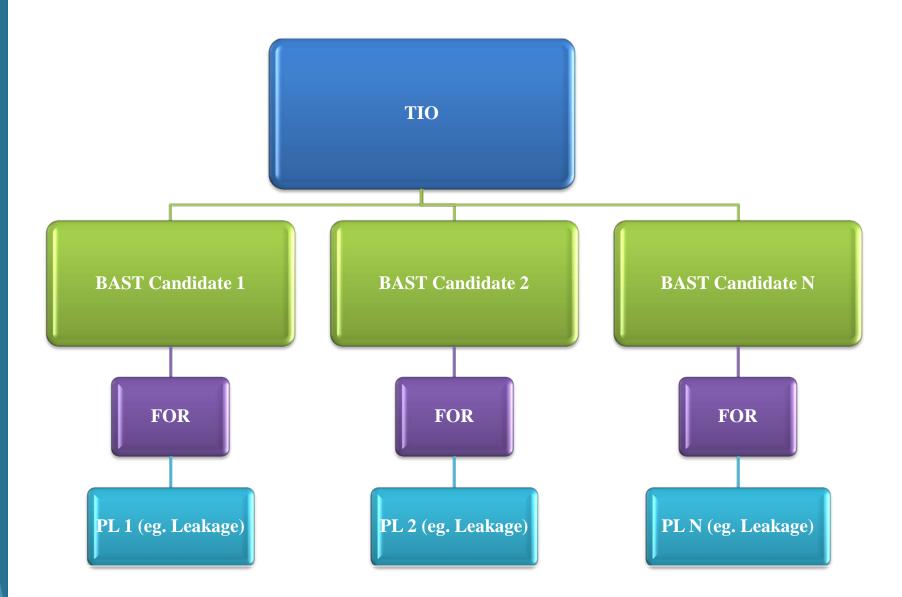
TW Establishes Performance Levels (PL)

PL <u>specifies how well a technology executes its' function</u> as determined thru testing and/or evaluation of operational history

TW must address repeatability & reproducibility of technology as part of their evaluation

TW compares/assesses **PL** of various technologies that meet **FoR**

TIO, FoR, and PL Relationship



BAST Determination Process Stage 3 - BAST Determination

BSEE performs a BCA consistent with OCSLA

If Director determines that implementation of proposed PL meets BCA then BSEE solicits comments through Public Notice

Public Notice includes TIO, PL, BAST implementation schedule

BAST Determination Process Stage 3 - BAST Determination

After evaluating Public Notice comments BSEE determines if it should proceed with BD implementation.

If BSEE decides to implement the BD the agency will release a final decision including effective date.

After a BD is effective, operators will be required to use technology that meets specified PL for new and, <u>wherever practicable</u> existing operations.

Operators may request waiver from BAST requirement for existing operations by submitting the appropriate documentation to BSEE.

BAST Determination Process

Alternative Course Methods: Addressing Technology Failures
Outside of the BD Process

BSEE Issues "Safety Alert" or Industry issues "Alert/Notice",

BSEE or Industry develops revised maintenance, inspection, and/or operational procedures,

BSEE or Industry R&D,

Industry develops a new/revised standard or BSEE incorporates them into regulations,

BSEE issues conditions of approval in plan/permit,

BSEE develops new/revised regulations

BDP Summary Takeaways



Three stages

Performance based

Transparent – 3 Public Notices requesting comments

Triggers – domestic/international safety issues

Technology driven

BSEE Website: www.bsee.gov

BAST Website:

www.bsee.gov/BAST

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