DEPT. OF NUCLEAR TECHNOLOGY CHULALONGKORN UNIVERSITY

Presentation - 10

"The ASSESSMENT FUNCTION"

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The ASSESSMENT FUNCTION

OBJECTIVES:

To review:

- ♦ Self assessment
 - · Self checking
 - Peer evaluation

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- ◆ Auditing
- **◆** Assessment of QM

Definition of SELF ASSESSMENT

Self Assessment is the evaluation of performance or output of an individual or an organization

by

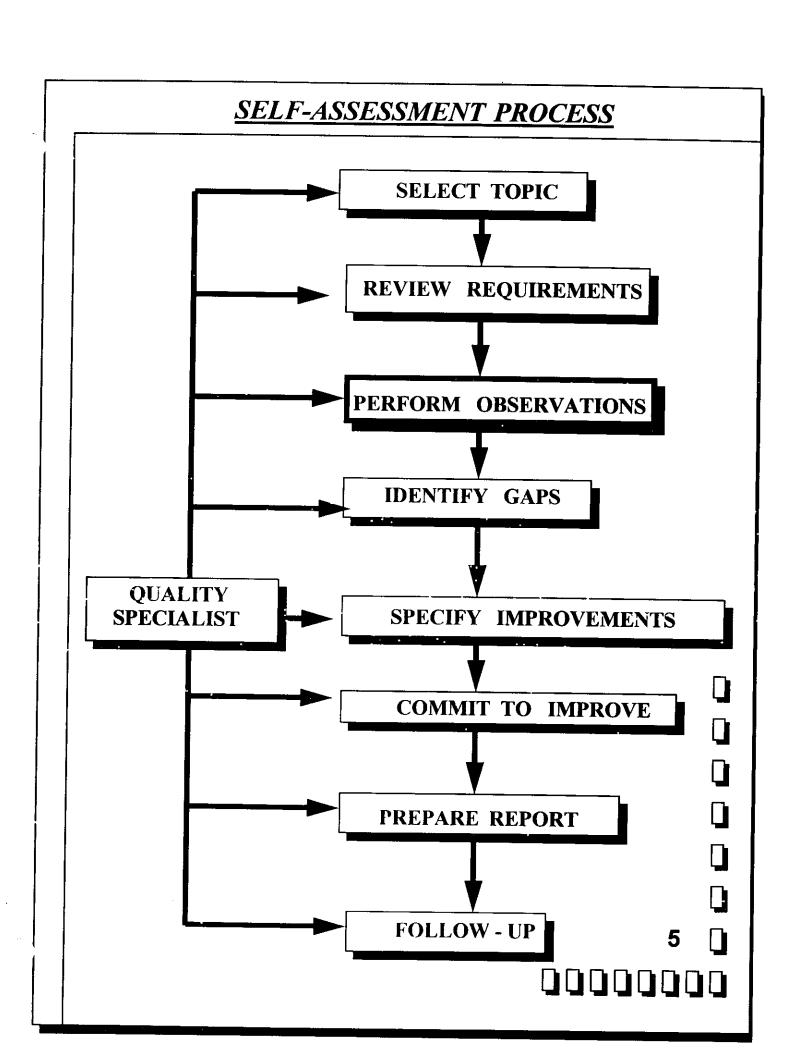
that individual or that organization <u>itself</u>

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SELF - ASSESSMENT CULTURE

- ◆ Self identification of problems and the motivation to fix them by all levels of the organization
- ◆ A structured approach to excellence
- ◆ Performance rather than compliance
- ◆ Management actively seeks out problems and resolves them, rather than relaying on others to identify the issues
- ◆ Emphasis on fixing the system rather than on blaming individuals

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FIVE ISSUES OF SELF ASSESSMENT

- ◆ Is there a performance standard?
- ◆ Does performance meet the standard
- ◆ Are personnel qualified ?
- ◆ Are the standards, qualifications and performance adequately documented?
- ◆ Is there reasonable expectation

 that the performance will improve

 in the longer term?

SELF ASSESSMENT - the ENVIRONMENT

- ◆ Clear understanding of long and short term goals by everyone
- ◆ Commitment to these goals
- ◆ Process for input to the goals
- Understanding of how individual's work impacts on the goals
- ◆ Ability to influence how the work is done
- ◆ Regular feedback on the status of achievement of goals

SELF CHECKING - "STAR"

◆ STOP

- · pause before acting
- focus attention

◆ THINK

- · identify equipment
- current indications and and expected response

◆ <u>ACT</u>

- maintain eye contact
- · touch equipment

◆ REVIEW

- verify expected response
- take appropriate conservative action

PEER EVALUATION

- ♦ Uses defined criteria of excellence
- ◆ Performance based
- ♦ Evaluates the managed process
- ◆ Performed by Peers from a different plant
- ◆ Results based on many observations of work in progress

- ◆ Identifies areas for improvement
- **◆** Identifies excellent activities

QA AUDITS -

PERFORMANCE STANDARDS

Performance shall be compared against defined criteria

such as:

♦	International	(IAEA,	WANO,	INPO)
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♦	National	QA	and	other	Standards
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- ♦ Utility and Plant regulations
- ◆ Accepted Industrial Standards

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QA AUDITS - TOPICS for TYPICAL

AUDIT of MAINTENANCE

- **◆** Training
- ◆ Qualification
- **♦** Maintenance procedures
- **♦** Spare parts control
- ◆ Substitution of parts

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♦ Calibration

MANAGEMENT OF QA AUDITS

Audit program must be managed

There shall be:

- ◆ Audit policy and procedure
 - · annual and longer term plan
 - · generic audit process
 - qualification requirements for auditors
 - · criteria for audit topic selection

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- · verification requirements
- reporting relationships

QA AUDITS - AUDIT PROCESS

Preparation:

- · develop a detailed plan
- · select and train team
- study documentation

Conduct:

- review of documentation
- observations in the field
- interviews

Follow-up:

- re-visit findings and corrective actions during subsequent audits
 - 00000000

WARNING ABOUT AUDITS

Long-term audit plan must strike a balance

between:

- · Commitment of resources to auditing
- · Significance of audit findings
- · Frequency of audits
- Effectiveness of auditee response

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There can be too many audits

and

<u>AUDIT OVERLOAD</u>

TODIA THE TELEVISION OF THE PERSON OF THE PE	AUDITOR	PRIVILEGES	:
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- ◆ Auditors must be independent:
- ♦ Have free access to
 - plant
 - personnel
 - · documents and records
- ◆ Be free of cost and schedule considerations
- ◆ Have <u>neither performed nor verified</u>
 the activities being audited

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CAUTION ABOUT PERFORMANCE INDICATORS

- **◆ Indicators show past results.** To improve performance - improve process
- ◆ Don't punish staff for poor results, or they will be hidden
- Use consistent definitions and don't change them
- Take prompt action to correct problems and involve staff

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Analyze indicators carefully

"WE are DROWNING in DATA, but are

SHORT of INFORMATION and KNOWLEDGE "

PARETO PRINCIPLE

"80 % of problems are

caused

by 20% of population"

therefore:

- ◆ ANALYZE using accurate information
- ◆ <u>CONCENTRATE</u> on the main problem

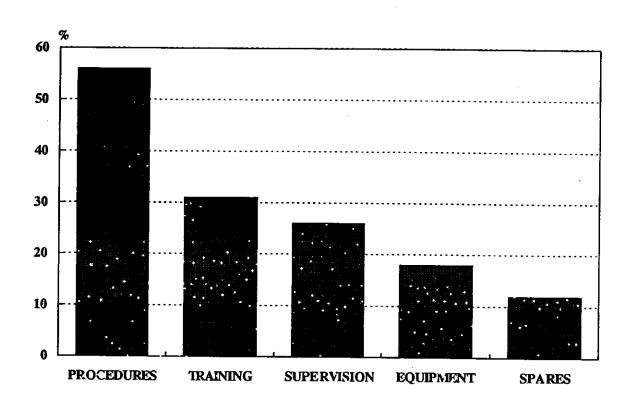
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SOME MEASURES of SUCCESS of QUALITY MANAGEMENT

- ◆ Performance trends show steady improvement
- ◆ Problems are solved permanently, on schedule and with willing cooperation
- ◆ People are proud of their solutions and accomplishments
- ◆ Activities are planned there is little "fire fighting"
- Number of recurrent problems decreases 0000000

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CAUSES OF POOR PERFORMANCE IN MECH. MINITCE



PROCEDURAL PROBLEMS

