





Workshop on Process Mapping and Risk-Based Quality Planning

Development of a QMS Certifiable to ISO 9001:2015 for the Department of Energy

May 11 & 15, 2018 DOE Bldg., Bonifacio Global City, Taguig City Tell me and I forget, teach me and I may remember, involve me and I learn.

-Benjamin Franklin

Session Objectives

- Draft the process map
- Develop an in-depth understanding of the Agency's mission, vision, commitment to quality, and relevant issues that it may need to address through risk-based quality planning
- Identify risks and opportunities related to organizational context, i.e. internal and external issues, and issues of the relevant interested parties
- Formulate action plans to address risks and take advantage of opportunities
- Review the existing quality objectives

Target Outputs

- 1) Finalized Process Map
- 2) Finalized Quality Policy
- 3) Draft Risk Register and Action Plans
- 4) Reference Matrix

The Organization and its Context

4.3 Determining the scope of the QMS

The QMS scope defines the boundaries and applicability of the QMS taking into consideration:

- the context of the organization,
- requirements of relevant interested parties, and,
- products and services.

What to do?

- Determine the QMS scope and provide justification (if any) if a specific requirement of the ISO 9001 standard is not applicable.
- Maintain and ensure availability of documented information on these.



Scope of the QMS

- Consider issues, requirements of interested parties, and products and services
- Maintain as documented information
- Type of products and services covered
- Justification for any ISO 9001:2015
 requirement that is claimed to be "not
 applicable" to the organization

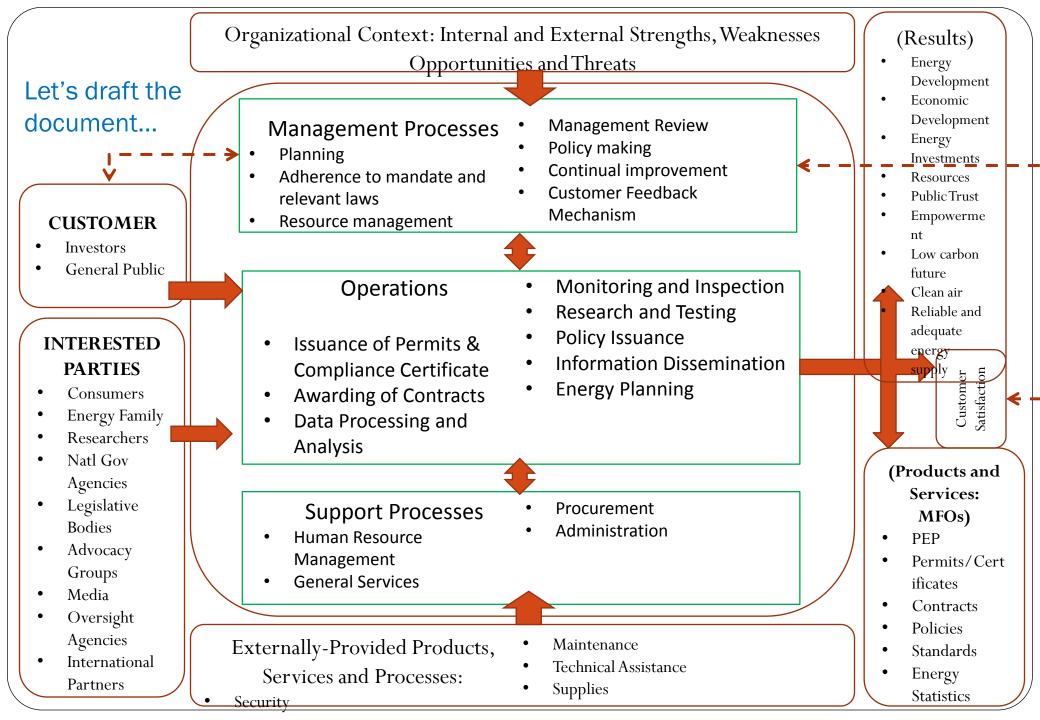
Scope – boundaries and applicability

4.4 QMS and its Processes

- determine the processes needed for the QMS and their application;
- determine the inputs required and the outputs expected from these processes;
- determine the sequence and interaction of these processes;
- determine and apply criteria and methods, including monitoring, measurement, and related performance indicators to ensure effective operation and control of these processes;

4.4 QMS and its Processes

- determine the resources needed for these processes and ensure their availability;
- assign responsibilities and authorities for these processes;
- address determined risks and opportunities
- evaluate these processes and implement any change to ensure achievement of intended results; and,
- improve the processes and the QMS.



The Organization and its Context

- 4.2 Understanding the needs and expectations of interested parties
 - Interested party refers to stakeholders*
 - Relevant interested parties provide significant risk to organizational sustainability if their needs and expectations are not met

*Stakeholder - A person or organization that can affect, be affected by, or perceive itself to be affected by a decision or activity



4.2 Understanding the needs and expectations of interested parties

 Determine relevant interested parties and their requirements relevant to the QMS

What to do?

Monitor and review information on these relevant interested parties and their relevant requirements

Figure 2.1 Examples of Interested Parties					
Interested party	Requirements	QMS processes			
Customers	Orders accurately taken Products arrive on time All product specifications met	 Sales and customer service process Shipping and logistics process Inspection process 			
Suppliers	Accurate purchase orders Timely payment of invoices*	Purchasing process Accounts payable process*			
Employees	Clear instructions and training Paychecks accurate and on time* Resolution of grievances*	Training process Payroll process* Human resources process*			
Managers	Current information for decision making	Management review process			

Figure 2.1 Interested party Community Schools and	Examples of Interested	Parties
	Requirements	QMS processes
Community	No excessive truck traffic*	Shipping and logistics process
Schools and colleges	Consideration of graduates as employees*	Recruiting and hiring process* Training process
Regulatory podies	Regulatory compliance*	Listing of applicable regulations* Regulatory compliance process*
Law enforcement	Compliance with all laws Reporting of illegal activities*	Human resources process*
Emergency responders	Reporting of dangerous substances* Planned approach to emergencies*	Emergency response process* Emergency maps and contact lists*
News media	Response to requests for information*	Public relations process*



Name of Agency

Quality Management System

List of Interested Parties and their Requirements

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Interested Parties	Needs	Expectations
LGUs	Statistical data	Timely release
		Reliable data
Employees	Direction and instructions	Clearly defined policies
	Compensation and benefits	and procedures
	Training and development	Open communication
		 Timely release of salary
		 Improved employee
		benefits
		 Relevant training
		 Defined career path
Management	Feedback	Fact-based feedback
	Performance monitoring and	 Timely submission of
	accomplishment reports	reports
		 Reliable reports
Suppliers	Purchase information (e.g. TOR,	Clear and specific
	specifications)	information
	Contract	 Timely communication

QMS Planning: Addressing Risks

ISO 9001:2015 Clauses 4.3 and 4.4.1

You cannot always control what goes on outside. But you can always control what goes on inside.

-Wayne Dyer

6.1 Actions to Address Risks and Opportunities When planning for the QMS,

- issues and relevant interested parties' requirements are considered, and
- risks and opportunities are determined and addressed.

Give assurance that the QMS can achieve its intended results

Prevent, or reduce, undesired effects

Achieve improvement

Risk in ISO 9001

Risk in the context of ISO 9001 relates to the **uncertainty in achieving** the following:

- Providing confidence in the organization's ability to consistently provide customers with conforming & quality goods and services
- Improving customer confidence and satisfaction
- Establishing a proactive culture of prevention and improvement

Risk-based thinking

Clause 4.4 The organization shall determine the **processes** needed for the quality management system and their application throughout the organization and shall determine:

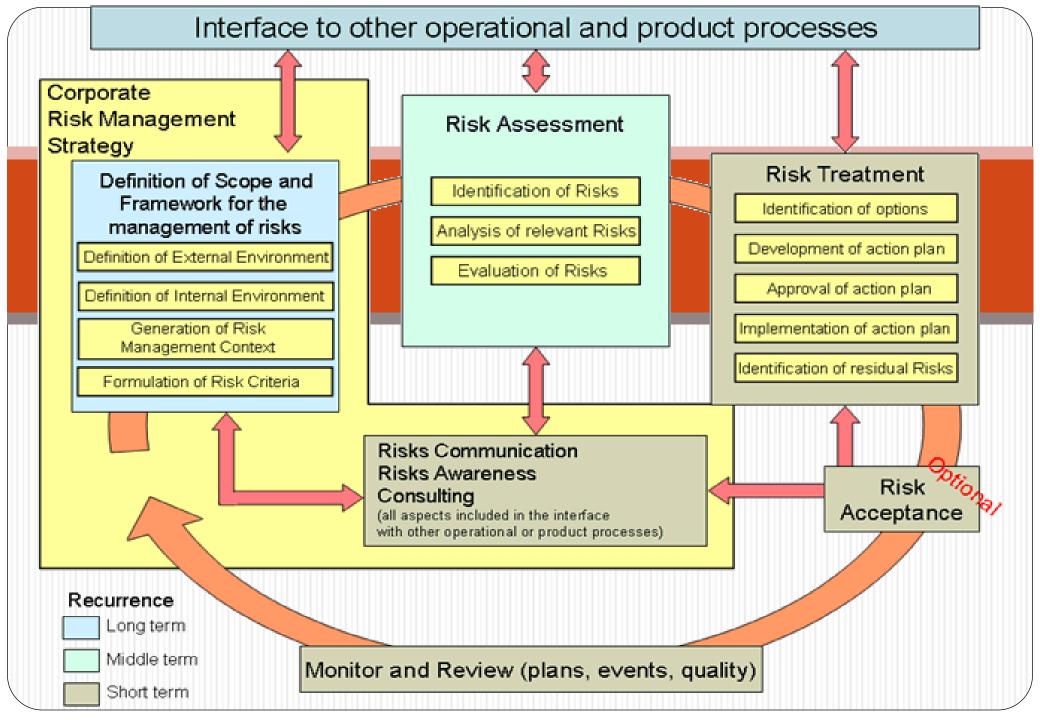
f) the risks and opportunities in accordance with the requirements of 6.1, and plan and implement the <u>appropriate</u> <u>actions to address them</u>;

Risk-based thinking is something we all do automatically and often sub-consciously

6.1 Actions to Address Risks and Opportunities Plan:

- actions to address these risks and opportunities and
- how to integrate and implement the actions into QMS processes and to evaluate the effectiveness of these actions.

Actions taken to address risks and opportunities shall be **proportionate to the potential impact** on the conformity of products and services



What To Do?

- 1.Identify what the risks and opportunities are in your organization depending on context
- 2. Analyze and prioritize the risks and opportunities in your organization what is acceptable/unacceptable?
- 3.Plan actions to address the risks how can I avoid or eliminate the risk?/mitigate the risk?
- 4.Implement the plan take action
- 5. Check the effectiveness of the actions does it work?
- 6.Learn from experience *continual improvement*

Documented Information Structure

- DOE wide DIs Volume 1
 - Quality Policy
 - Quality Procedures
 - High Level Process Map
 - Risk Registry
- Bureau Specific DIs Volume 2
 - Citizens Charter
 - Process Flowcharts
 - Risk Registry
 - Master list of Procedures, Work Instructions and Standards, Internal & External
 - Records Matrix
 - NC Matrix

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Related internal/ external issue	Description of Risk/Opportunity	Source/Cause	R/O	Consequence to QMS outputs or non-compliance to requirements	Current Control/ Current Situation	Consequence Rating	Likelihood Rating	Risk/Opportunity Rating	Action Priority	Action plan (with Responsible Office)	Timelines
Committed and highly trained workforce	Retained competent workforce to perform functions	Good rewards and recognition	0	Sustained effectiveness and efficiency in operations	Only government- approved incentives are implemented	2	3	6	Med	HR to look for possible additional incentives for high performing	Jan – Jun 2017
	Competent workforce are pirated by private companies	Better compensati on package of the industry	R	Higher cost for training new employees	SG is based on government laws	4	3	12	High	staff and review the promotions process	
Faster change of technology	Not being able to cope up with the trend	Budget constraint/ redtape	R	Failure to deliver accurate and reliable data; Failure to meet targets	Annual Budget/Procu rement Plan delayed by 6 months	4	5	20	High	ICTD to analyze trends in cost of technology as input for annual budget	Jan – Jun 2017
	Faster delivery of data and services	Adoption of new and effective technology	0	Targets to be exceeded	Annual Budget	4	2	8	Med	increment and propose new technologies that may be adopted	

A. Definition of Terms

Internal and external issues, as well as issues of interested parties;
should be stated with adjective
Effect of uncertainty
Can lead to the adoption of new practices, launching new products,
opening new markets, addressing new clients, building partnerships,
using new technology and other desirable and viable possibilities to
address the organization's or its customers' needs
Possible impact to the quality of outputs
Measures of impact of the consequence; Refer to criteria for
consequence
Measures the probability of occurrence of the consequence
Measures the need for action using the criteria for action matrix
Measures whether the risk should be treated or not; whether
opportunity should be pursued or not
Plan of activities that will prevent the occurrence of the risk or that
will maximize the benefits of the opportunity
Period covered that the action plan shall be implemented

B. Criteria for Consequence

	Rate	Risk (Negative consequence)	Opportunity
Insignificant	1	Minimal (no customer complaint) or no	No perceived value for
		impact	improvement and sustainability
Minor	2	Minor impact (noticeable effect, minor	Pursuing the opportunity will
		customer complaint)	slightly improve QMS and sustainability
Significant	3	Moderate impact (customer complaints resulting in claim)	Pursuing the opportunity will considerably improve QMS and sustainability
Major	4	Major impact (catastrophic, recall, fatality, costly compensation, legal action) alternatives available	Pursuing the opportunity will highly improve QMS and sustainability
Catastrophic	5	Major impact (catastrophic, recall, fatality, costly compensation, legal action) no alternatives available	Pursuing the opportunity will greatly improve QMS and sustainability

C. Criteria for Likelihood

	Rate	Likelihood – Risk	Likelihood - Opportunity	
Rare	1	Not known to happen	No chance of success within the	
			next 12 months	
Low	2	Low occurrence of 1 x a year	1-25% chance of success within	
			the next 12 months	
Medium	3	Known to happen, occurrence of 1 per	26-50% of success within the next	
		quarter	12 months	
High	4	Very likely to happen, occurrence of	51-75% of success within the nex	
		more than 1 time per quarter	12 months	
Very High	5	Highly likely to happen, occurrence of 1	>75% success within the next 12	
		time per month.	months	

D. Risk Rating Matrix

	Rare	1	2	3	4	5		
O	Unlikely	2	4	6	8	10		
ПКЕЦНОО	Possible	3	6	9	12	15		
丑	Likely	4	8	12	16	20		
ž	Certain	5	10	15	20	25		
		Insignificant	Minor	Significant	Major	Catastrophic		
	IMPACT							

E. Criteria for Action

Risk/Opportunity	PRIORITY	MANAGEMENT	MANAGEMENT'S DECISION				
Rating		RISK	OPPORTUNITY				
10-25	HIGH	Take immediate	Pursue the				
		appropriate action to opportunity					
		eliminate the risk					
5-9	MEDIUM	More frequent May consider pursu					
		monitoring of the opportunity					
		performance/complaints					
1-4	LOW	No action required	No action required				

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Quality Policy

ISO 9001:2015 Clauses 5.2

5.2 Policy

- A. Establishing the Quality Policy
 - appropriate to the purpose and context of the organization and supports its strategic direction;
 - provides a framework for setting quality objectives; and,
 - includes a commitment to satisfy applicable requirements and to the QMS' continual improvement

5.2 Policy

- B. Communicating the Quality Policy
 - Be available and be maintained as documented information;
 - Communicated, understood, and applied within the Organization; and,
 - Made available to relevant interested parties, as appropriate.

Ask the following questions:

- As an organization, what do we really believe in?
- What role does the customer play in our success formula?
- What does the word "quality" really mean to us?
- What makes our services better than similar services?
- What words would you use to summarize our organizational culture?

Let's revise/draft the Quality Policy...

Quality Management System Quality Policy Effective Date: Revision No.: Page No.:		Agency Name	Doc Ref No.:	AGC-QMS-04
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Signature NAME Head of Agency

QMS Objectives

ISO 9001:2015 Clauses 6.2





6.2 Quality Objectives and planning to achieve them

- established at relevant functions, levels and processes;
- consistent with the quality policy;
- measurable;
- take into account applicable requirements;
- relevant to conformity of products and services and to enhance customer satisfaction; and
- monitored, communicated, and updated as appropriate.

Formulating and Evaluating Quality Objectives

Considerations and alignment

- Balanced Score Card
- Major Final Output (MFO)
- Defined Key Result Area/Key Performance Indicator (KRA/KPI)
- •Results-Based Performance Management System (RBPMS)
- Office Performance Commitment and Review (OPCR)
- Division Performance Commitment and Review (DPCR)



Let's review your existing document...

Insert or refer to existing documents that lay down their targets and objectives, e.g. BSC, OPCR, DPCR, etc.

Gather inputs and comments. Make necessary recommendations.

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Objective	Key Performance Indicator	Baseline Data	Target	Action Plan	Responsible Unit	Completion Date	Monitoring Method
Reduce the processing time of approval and release of permits	% decrease in the processing time	10 days	4)% decrease (6 days)	Conduct time and study motion Identify bottlenecks Redesign the process to reduce processing time	Licensing and Permits Division	November 30, 2017	Logbook of application and released permits