

Who is Involved in Change Control ?

Regulatory Affairs

- Checking the change and advising any regulatory impact
- · Liaise with Regulators
- Submission of Requests and Documents

Quality Assurance

- · Classifying the change request
- Assessing impact of change level
- Forwarding requests to the Technical Committee
- Managing the change control procedure

 (see co-ordinator)
- Chairing the Technical (Change Control) Committee;
- Monitoring that change actions are implemented

Technical (Change Control) Committee

- Meeting regularly to review all major change requests;
- Review and approval of all major changes;
- Liaising with regulatory authorities, where required.

Change Co-ordinator/Specialist

- Co-ordinating requests
- Organising approvals
- Reviewing change plans
- Ensuring validation is undertaken
- Post change verification of implementation

Document Administrator/Control

- · Maintaining the change request register;
- Filing completed change reports.

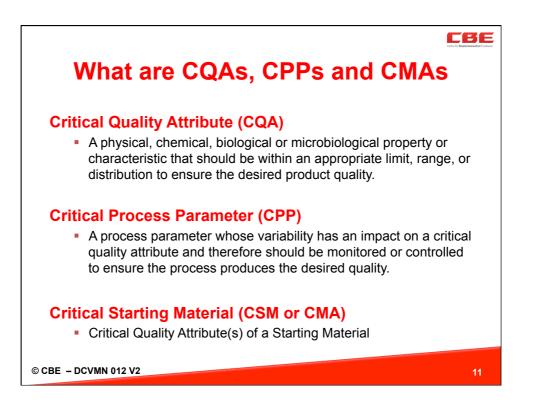
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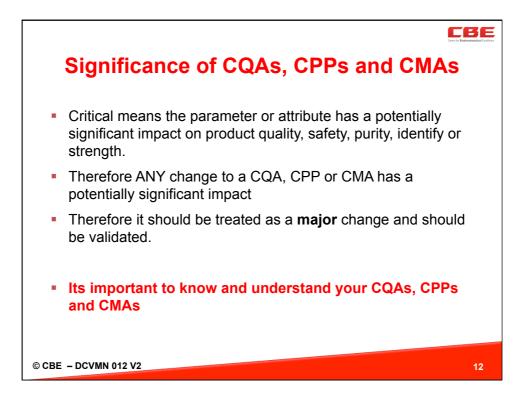
Change control scope includes, but is not limited to

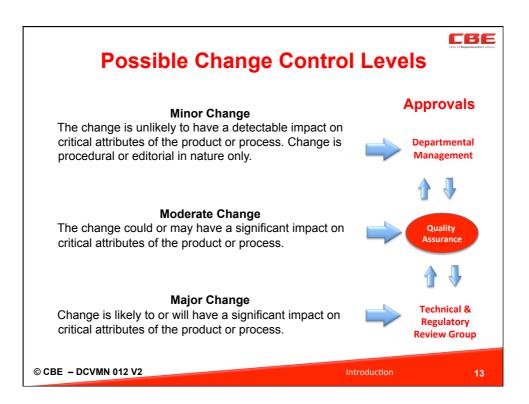
- Product Formulation
- Manufacturers of Active Pharmaceutical Ingredients (APIs)
- Batch scale up or down beyond +/-10%
- Manufacturing and packaging process steps (CPP/CQA impact)
- Cleaning and sanitising programs
- Labelling and packaging components;
- Critical starting materials;
- Direct impact equipment;
- Direct impact services or facility;
- Laboratory test methods and specifications (for both starting materials and finished products);
- Stability program, storage conditions and expiration dating;
- Sub-contract facilities or operations.

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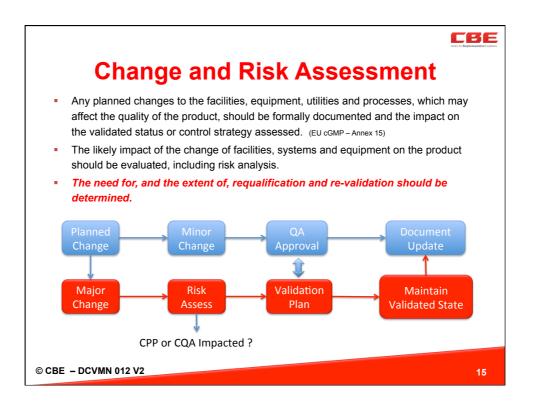
les of Char	nge Contro		
Process Changes	QC Changes	Equipment Engineering	
Validated Steps	Critical Quality Attributes (CQAs)	Processing Equipment	
rting Materials API Source CPPs		Pharmaceutical Services (Water, Gas, HVAC)	
Batch Scale Up/ Down	Test Methods and Specification	GMP Facility	
Cleaning Sanitation Sterilisation	Laboratory Instruments	Critical GMP Related Computers	
	Process Changes Validated Steps Critical Process Parameters (CPPs) Batch Scale Up/ Down Cleaning Sanitation	ChangesValidated StepsCritical Quality Attributes (CQAs)Critical Process Parameters (CPPs)Critical Material Attributes (CMAs)Batch Scale Up/ DownTest Methods and SpecificationCleaning SanitationLaboratory Instruments	

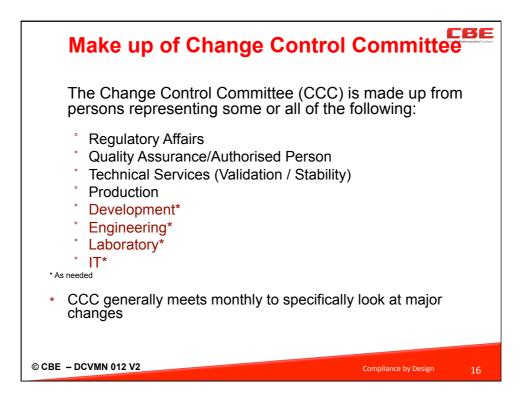


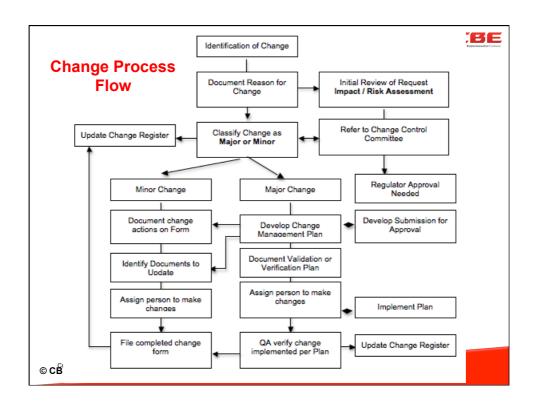


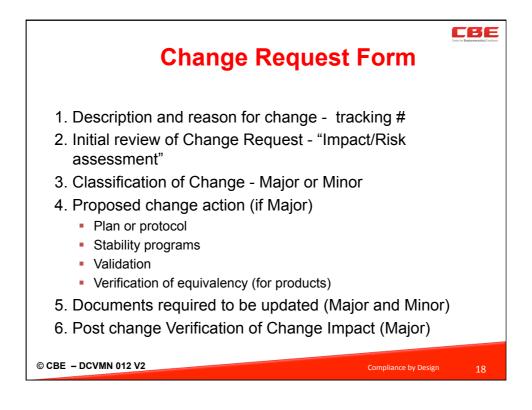


Change	s to	Minor	Major	C C C C
Contract Service Provi	ders		~	Centre for Biopharmaceutical Excellence
Regulatory Updates eg	. Pharmacopeial update	✓	✓	
Contract Testing labora	atories	✓	~	
Contract Manufacturer	6		✓	
Critical Equipment or §	ervices • "like for like" • Different	~	~	Examples of
Master Engineering Dia	agrams / schematics etc.		✓	Tunical Change
Change to a Critical Qu	ality Attribute (CQA)	Tighten	Widen	Typical Change
Change to a Critical Pr	ocess Parameter (CPP)	Tighten	Widen	Levels
Change to a Critical St (CSM)	arting Material Attribute	Tighten	Widen	Leveis
Master Batch Records Formulation)	(validated processes and		~	
	Specifications Components Primary – registered Secondary & non registered		1	
Packaging Materials	Primary – registered econdary & non registered	~	* *	
Printed Matter	Primary – registered econdary & non registered	1	× ,	
Product - Specification Limit	Tighten the	~	~	
	Widen the Limit			
Product - Test	Add a Test Delete a Test	~	~	
Shelf Life Conditions (e	expiry or storage)		✓	
Test Methods		✓	✓	
Utilities or Services	Critical Non-critical	~	~	14









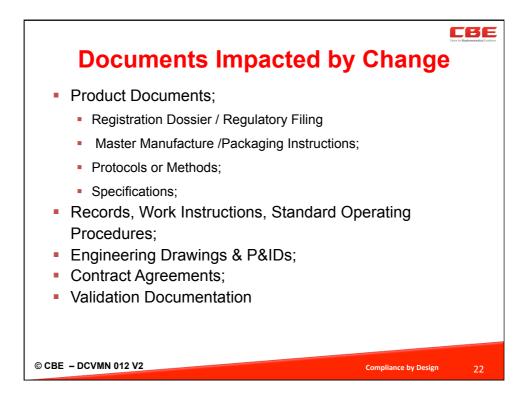
	Change Request Number:	CR		Change Type one):	(circle	Major	1	Minor	Centro for Elegisernaceatical Excellence
	Product or Group of Pr	oducts affe	cted by			1			
	Summary of Change								
;	SECTION 1								
-	Change Control Identifi		Date:						
	Brief Overview of Chan	Change Required:							
	Details and Reasons fo	r change:							
	SECTION 2 - Describing								
	Does the change affect (circle all that apply):								
	One product / multi	ple product	s Steril	e / Non-Sterile	luct				
	What does the Change	Control inv	olve – ticl	k ⊠one or more	e items	listed be	low		
	Sterilisation/Sanitation process	Ra	w material	change	Master Record	r Batch ds			
	Production equipment change		sting equip ange	ment	Specif Metho	ication/Te d	st		
	Air handling system (HVAC)	Pe	rsonnel ch	anges	Shelf I Condit				
	Water purification system	Ch ste	ange in a p p	process	Utilities or Servi	ces			
	Packaging components change	CP	P or CQA	change	Other				
	Areas affected by the c	hange (tick	whicheve	er applies):					
	Product Development	Va	idation		Regula	atory			
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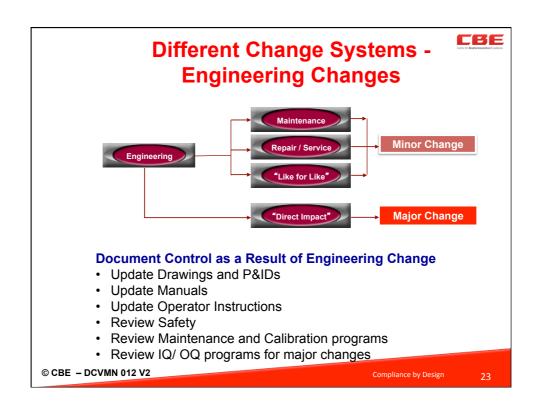
Impact / Risk Assessment (circle whet	her the change is major or minor
Minor Change/Low impact	An impact or risk assessment is generally not expected
Major Change/High Impact	A impact/risk assessment may be required if the change involves a change to a CPP, CQA or CSM or is complex in nature.
Regulatory Change ? Yes / No If Yes the rate as Major/High Impact	Determine if the proposed change mut be approved or notified to a regulatory agency before implementation.
Impact / Risk assesment required ? Yes/No	If Yes refer to RA #
Approved by (QA Representative)	

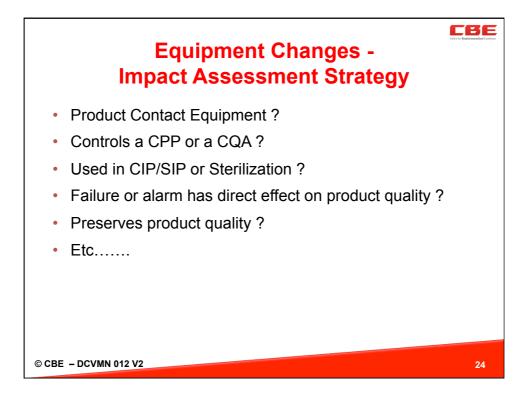
Documents impacted

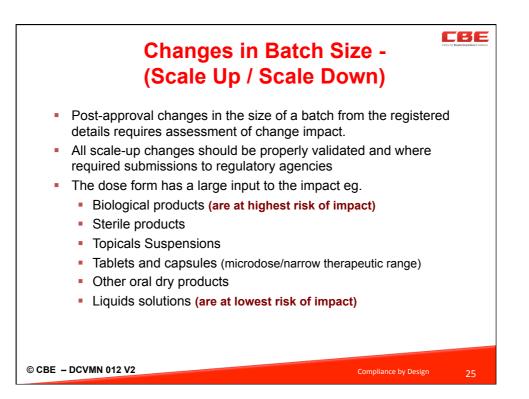
	Documents Affected by the Change:	Document No.	Responsibi lity	Target Date	Date Completed
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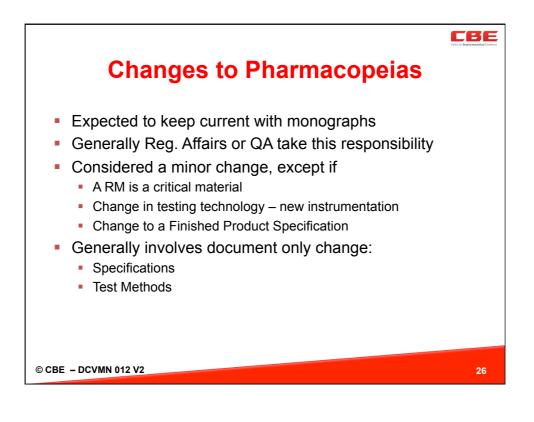
SECTION 3 – Change Management Plan Regulatory Agency Approval required ? Yes / No –									
If Yes, indicate date of approval Date:									
Proposed Action: Mandatory for Major changes and optional for Minor changes	Responsibility	Target Date	Date Complete						
1.									
2.									
3.									
4.									
Is verification of the effectiveness of the implemented change required ?	Yes / No	By:							
			Dete						
Actual Action Implemented (if different from above):	Responsibility	Target Date	Date Complete						
Change Implementation Checked and Closed out by:	·	Date:							

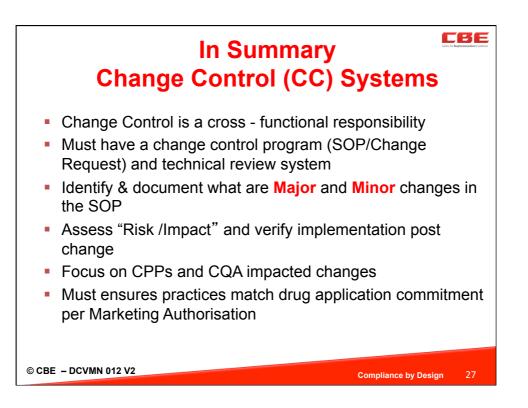


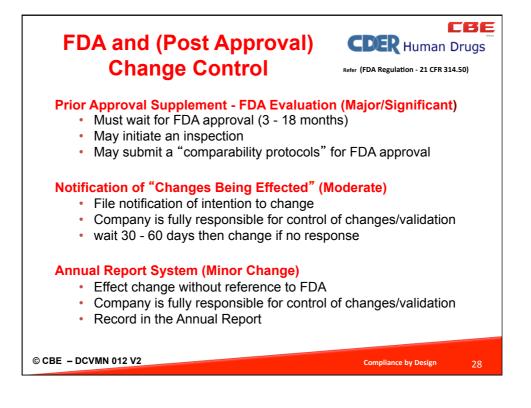


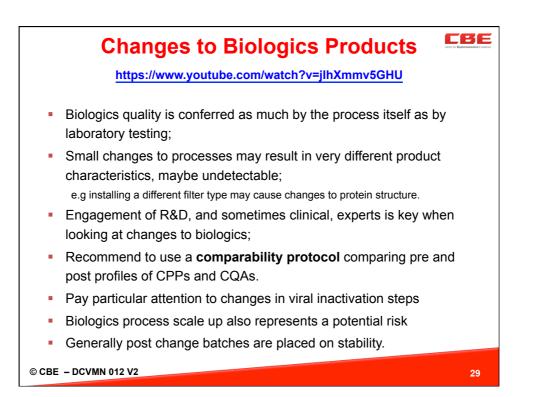


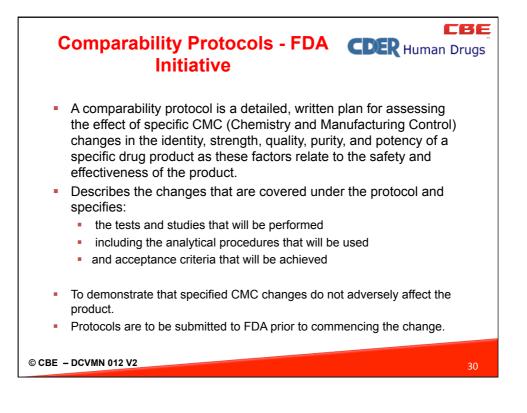


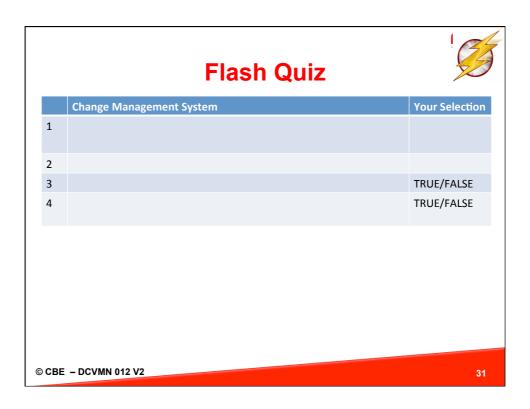




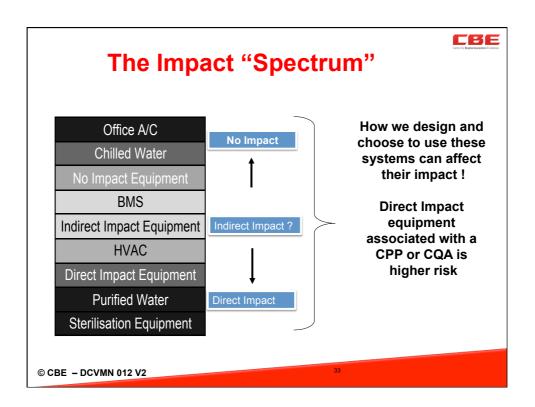




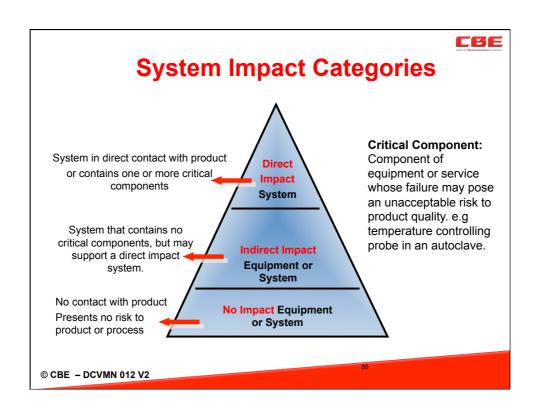






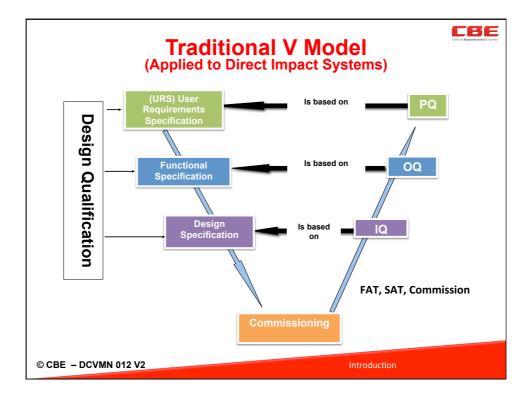


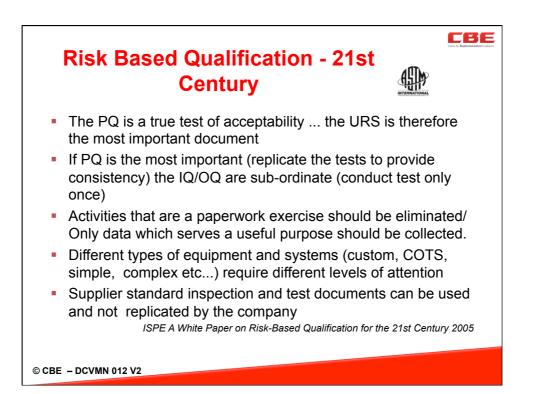
Impact Assessment	- Definitions
Definition: If the equipment or component fails or is incorrectly specified product quality	Examples
Direct Impact is "likely" to be affected, <u>OR</u> the component is in direct contact with product.	Water purification systems, product pumps and vessels, product sieves, product temperature control systems, product mixing systems.
In-direct Impact may possibly be affected, through the failure of a related system.	coating pan drive motors, temperature monitoring probes, instrument air
No Impact is not likely to be affected, through the failure of a related system.	Plant cooling water
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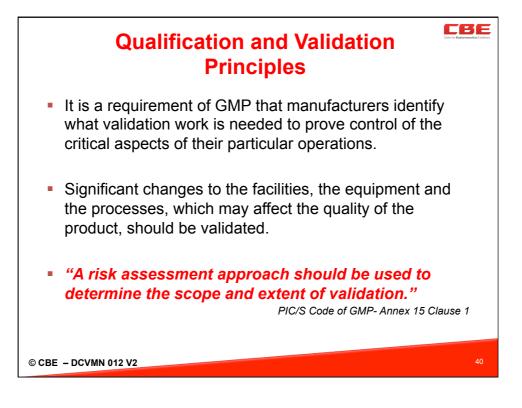


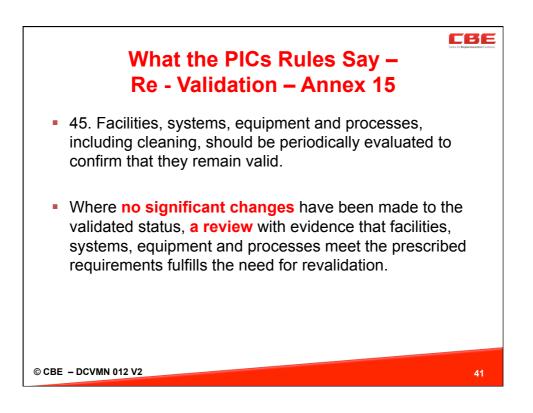
Decision Matrix Based on Risk (Impact / Complexity)									
Criticality of System	, , ,		Re - Qualification Required ?						
Direct Impact	Simple / Off the shelf	Yes IQ/OQ/PQ	Assess the need for re-qualification						
	Complex/Novel	Yes DQ/IQ/OQ/PQ	Periodic Re- Qualification Expected						
Indirect Impact	Simple / Off the shelf	Commission Only	Not expected M & C Only						
	Complex/Novel	Maybe IQ/OQ	Assess Reliability Only						
No Impact	No Impact Simple / Off the shelf		Not expected Maintenance Only						
	Complex/Novel	Commission Only	Not expected Maintenance Only						

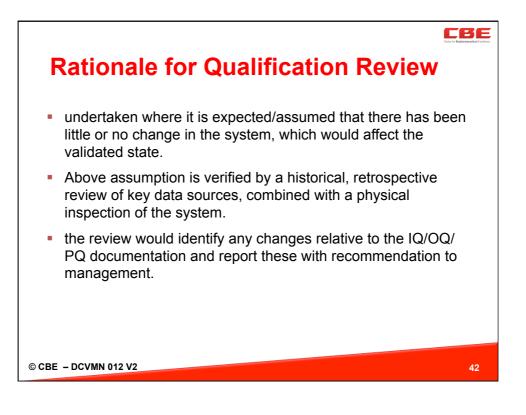
		Impo					•	nont	
		Impa				623	51	nent	
		OP-VAL-XXX						Complexity Assessment	
		Assessment Checklist				Classify the	item as		
Item N	ame: Process Line:	Equipment #:				COMP	LEX	Complex equates to novel or multi-module equ integrated components to work synchronously e.g.	pment where there is a need for a freeze dryer or filling machine
								A novel item is one that is custom built for the proc or simple, but is generally classified as complex.	ess step - it may be either complex
	taken into account: GMP GDP GDP GDP GDP GDP GDP GDP GDP GDP GD	G(QC)LP GAMP Other					E	Simple equates to equipment that has only one in mixing tank or an incubation room. These items an stand alone and not integrated	module or unit e.g. a filter press, a e often purchased "off the shelf" are
	Impact Ass	essment Checklist						stand arone and not integrated	
	Complete the checklist questions below by only related to a component of the item tick ?	ticking each line. If the answer is Yes but res and the Component box.	omponent	Yes	No	Conclusion: Provide a con	noise jus	stification for the classification of the item addressing	both criticality and complexity.
1	Is the item, or components in direct contact w	ith the product or auxiliary solutions during	0						
2	production or during monitoring? Item provides an excipient or process ingred				븝	1			
2	Does the item (or a component) produce dat		H		븝	1			
4	release? Does the item wholly or partly independe	ntly decide on the further processing of							
5	products? Does the item (or a component) monitor independent verification?	a CPP or WPP control system with no							
8	independent verification? Item preserves product quality e.g. vent filter	, HVAC, Gas etc.?			븝	Approval of	Report		
7	Failure or alarm has direct effect on product	quality or impacts a CPP/WPP?				Name/Title		Signature	Date
8	Does the item directly or indirectly control/m of products?	onitor prescribed environmental conditions							
9	Is the item involved in the generation / proce	ssing of analysis values?				Engineerin	9		
10	Does the item permanently save 'critical' dat					Production			
11	Does the item use electronic records / electro Does the time contain data that describes the			8	믐	Quality As:	surance		
12	Does the item contain data that describes the Does the item contain data (paper, files) that			H	븝				
14	Is the item used as a primary or supporting s	ource for batch tracing?							
15	Does the item directly or indirectly control/m packaging, temperature, RH% or storage du	onitor the storage of products in regard to ration?							
16	Does the item automatically provide medical								
17	Are products labeled with the item?	t and a state of a sta		<u> </u>	믐				
	Is item used for cleaning/sanitation or produce n of a Subject Matter Expert (if in doubt)		ш						
		Sign							
		Date							
Classifi		one of the above is Yes then the item is	Dire	ct imp	act.				
	DIRECT IMPACT If the answer to any	one of the above is Yes but relates to							
	O IMPACT If the answer to all o	f the above is No then the item is has	no (G	xP) in	pact.				
	I his conclusion does	s not imply that it does not have GEP si	ynnos	artce.					

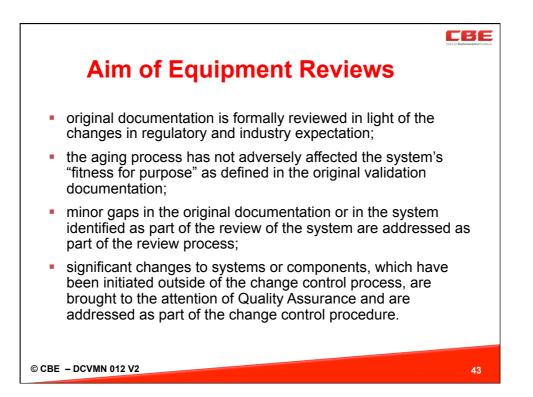


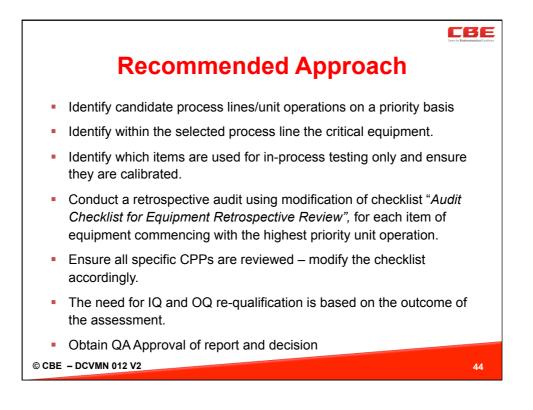


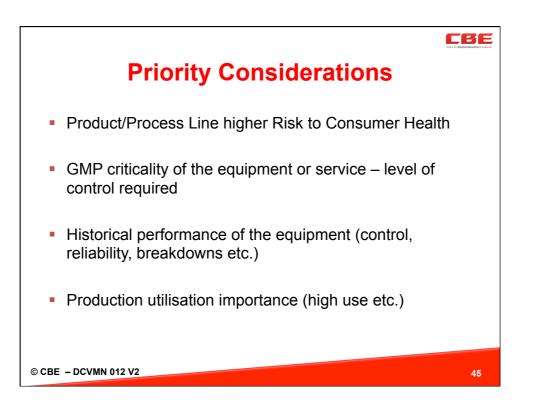


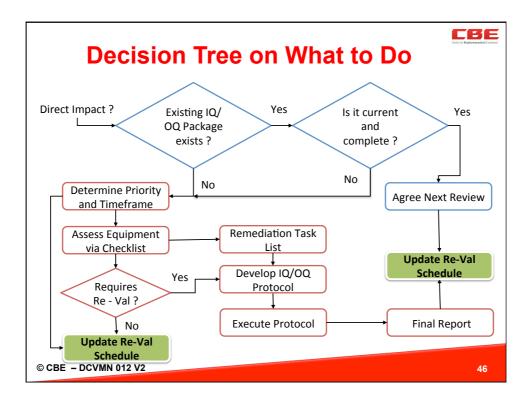


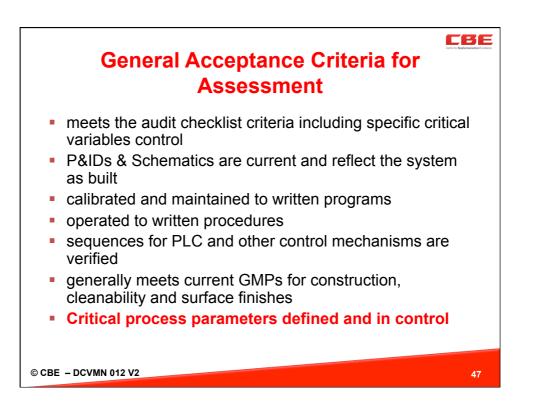






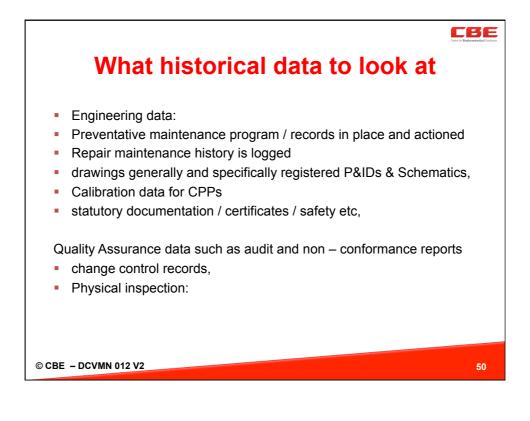


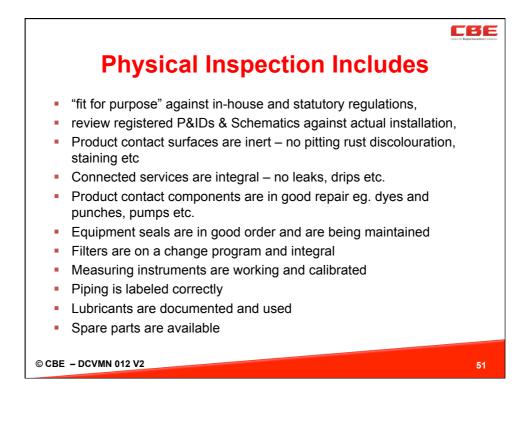


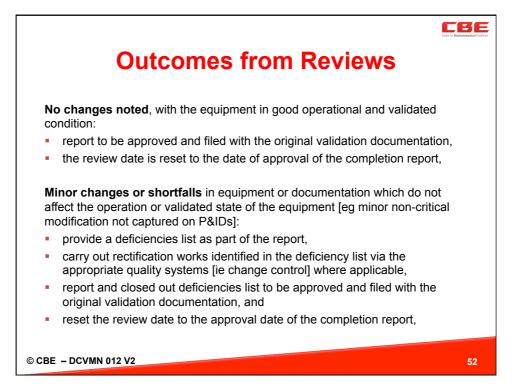


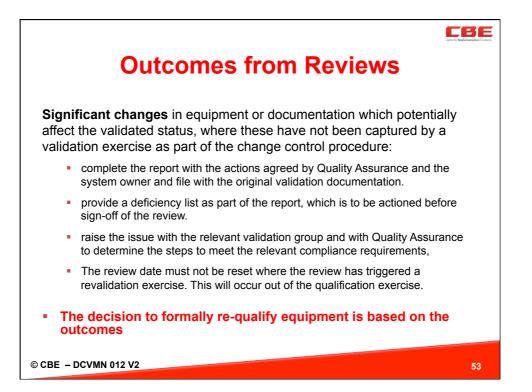
	Assessment Checklist	Contro for Bioghamaco
#	Item and Attribute	OK ?
1	Item Drawings, Procedures and Manuals Review	
	P&IDs & schematics all present, current-match as built condition ?	V
	SOP for operation published ?	v
	SOP for cleaning and sanitation published ?	 Image: A second s
	SOPs for maintenance and calibration published ?	
2	Automated (Control) Systems Review	
	All PLC controllers verified as functional ?	v
	PLC controller sequence verified/documented ?	V
	SCADA or equivalent interfaces in place ?	v
	SCADA or equivalent interfaces verified ?	~
	Automated instructions secured and retrievable ?	~
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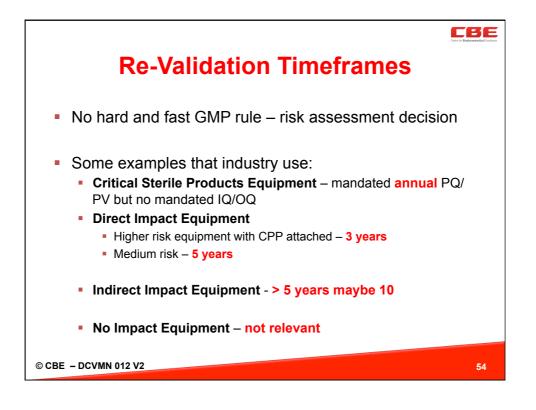
	Assessment Checklis	st
#	Item and Attribute	OK ?
	Additional Areas for Assessments	
3	Physical Inspection / Construction	 ✓
4	Monitoring Instruments	v
5	Operation & Records	 ✓
6	Preventative Maintenance and Safety Programs	v
7	Assessment of any Critical Process Parameter(s)	
	Summary of Conditions and Recommendation	v
		v
	Remediations / Corrective Action List	 ✓
ŧ	Remediation without IQ/OQ	By/ when
	Remediation with IQ/OQ	v

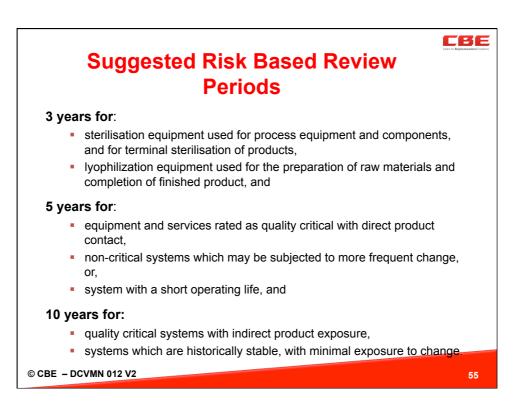












	Flash Quiz						
	Change Management System	Your Selection					
1							
2							
3		TRUE/FALSE					
4		TRUE/FALSE					
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