

ENVIRONMENT, SAFETY, HEALTH & QUALITY FUNCTION

ANNUAL REVIEW ON SAFETY TO THE REGULATORY COMMUNITY

(CY 13)

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J Taylor		5 Aug'3

Revision History

Issue	Date	Significant Changes
Sector Sector Sector		

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CONTENTS

1	INTRODUCTION	
2	ATTENDANCE	5
3	SLIDE PACK	7
4	KEY POINTS / OBSERVATIONS RAISED DURING THE REVIEW	7
5	ESH PERFORMANCE	7
6	TRANSFORMATION	7
7	MAJOR HAZARDS	7
8	INTERNAL REGULATION	8
9	OPERATIONAL EXPERIENCE AND LEARNING	
10	Summary	
11	LUNCHTIME PRESENTATION	
12	SCIENCE & TECHNOLOGY	9
13	SITE	9
14	ASSEMBLY & EXPLOSIVES	9
15	FISSILE OPERATIONS	
16	CAPITAL PROJECTS	9
17	REGULATORS SumMary	10
18	WASH UP	10
19	ACTION MANAGEMENT	
20	List of Annexes	11
	20.1 Annex A: Review Slide Pack	11
	20.2 Annex B: "POST IT" Capture Sheet	11
	20.3 Annex C: List of Actions	11
21	REFERENCES	

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1 INTRODUCTION

This meeting was the AWE annual presentation to the regulatory community.

The meeting notes comprise the following elements:

- A copy of all slides presented at the review
- Amplification of key points which were raised during the review as appropriate.
- A formal list of actions

Julie Taylor invited attendees to introduce themselves and gave an assurance moment which took the form of a personal reflection on the last year as Director ESH&Q. In summary:

- AWE's organisational focus continues to be developed to align to delivering the core mission. This has been enhanced by the (Target) Operating Model and functionalisation which went live on 2nd April 2013.
- Generally good progress is being made and the Incident & Injury Free workshops have brought a greater focus on leadership behaviours and accountabilities. However, there is still some way to go to strike the right balance between personal and process safety.

She then went on to introduce the general format of the presentations which would give an overview of performance, key regrets, learning and the forward focus.

previous years Annual Review of Safety and the open and honest language that was used. He requested that in future the Annual Safety Report be issued in advance of the formal meeting to allow time to review and digest the information.

Action: (CY14/01): Head of OEL

2 ATTENDANCE

The attendance status for all or part of the Meeting is outlined below:

Name	Organisation	Remarks
Mrs Julie Taylor	AWE Director Environment Safety Health and Quality	Chairperson
Mr	HSE (HID) Regulator	
Mr	DNSR	
Mr	ONR Regulator	T
Mr	ONR Regulator	
Mr Mr	ONR Regulator	
Mr.	ONR Regulator	
Mr	HSE Regulator	
Mr Example 1	ONR Regulator	
Mr	ONR Regulator	
Mr	EA Regulator	
Mr	EA Regulator	
For AWE		
Dr	Head of Applied Physics and Head of Technology Centre - Hydrodynamics	
Dr	Explosives Safety Lead	
Dr and and and and and and and and and and 	Acting Head of Service, Major Hazards	
Dr and and an a	Head of Environment Safety and Health	
Mr	Head of Operational Experience and Learning	

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Name	Organisation	Remarks
Mr	Head of Construction ESH	
Mr M r	Head of Transformation Programme	
Mr	Programme Manager Major Projects	
Mr	Head of Production Operations	
Mr State State	Regulatory Interface Manager	
Mr	Head of Assembly & Explosives Operations	
Mr	Head of Environment	
Mr	Site Manager Aldermaston	
Mr	Head of Nuclear Safety	
Mr Sector	Head of Internal Regulation	
Mr		
Mr	Pegasus Assurance System Manager	
Ms	Operational Assistant to Director ESH&Q	
Ms	ESH&Q Function	IT Provision
Mr	Central Operating Excellence Team	Secretary

3 SLIDE PACK

The slide pack is attached in Annex A to this report and comprises all presentations delivered during the meeting.

4 KEY POINTS / OBSERVATIONS RAISED DURING THE REVIEW

The key points and observations are outlined against each presentation. A number of further observations were made during the close out session which are summarised in Annex B.

5 ESH PERFORMANCE

gave an overview of ESH performance. There were no specific issues raised under this item.

6 TRANSFORMATION

gave an overview of transformation.

The regulatory community gave a positive response to the implementation of the (Target) Operating Model and the level of engagement and communication with the regulators. They advised moving forward cautiously and that continued/early engagement with appropriate regulators should be maintained.

The ONR expressed an interest in seeing examples of how transformation has improved the organisation as it develops and matures.

7 MAJOR HAZARDS

gave an overview of Major Hazard Operations

The regulatory community were complimentary of the approach to the development and deployment of Safety Cases on a Page (SCOAP) and this has helped lead the inspection regime for ONR. AWE is considered to be in the vanguard of industry. However, it is essential that SCOAPs become an effective part of normal working and are maintained under appropriate configuration control processes.

The ONR asked whether SCOAP has been rolled out across all of AWE's facilities. To date approximately 150 SCoaPs have been produced, prioritised based on hazard, with those related to high hazard processes produced and delivered within an 18 month window.

The concept has been rolled out across AWE and now forms part of the AWE plc Company Arrangements.

undertaking benchmarking activities looking at other installations such as Pantex and Sandia National Laboratory in the USA for learning opportunities. The explosives regulator was appreciative of AWE's involvement and contribution to the industry led Explosives Sector Leadership Group comprising the UK's principal explosives manufacturers.

8 INTERNAL REGULATION

gave an overview of Internal Regulation

The regulatory community were encouraged by the direction AWE is taking with the development of its Internal Regulation regime and the opportunities for joint inspections with going forward.

The regulatory community did however raise an observation that AWE needed to ensure the IR process was implemented in a thorough manner as it had not identified a number of key issues which had been picked up by HID.

It was agreed that AWE would share the Review Learn Improve report on PEGASUS with the regulatory community.

9 OPERATIONAL EXPERIENCE AND LEARNING

gave an overview on Operational Experience and Learning

The ONR expressed a perception that there was reluctance in some areas to raise INF1's. This view was not necessarily shared by AWE, but is useful feedback that would be investigated as the INF1 processes in still relatively new.

AWE is actively encouraging all personnel to be aware of their assurance responsibilities and to raise the appropriate observations by engendering a culture of transparency and "no blame". This also includes, if appropriate, the engagement of the regulatory community as early as possible.

The regulatory community requested that there was clarity over the definitions of Assurance Event and Assurance Observation Reports. This is being addressed in the current review of the LC7 arrangements.

10 SUMMARY

Overall the Regulators saw AWE's performance improving with good practice within construction safety, Sustainability Plans that were examples of best industry practice, achievements in ISO14001 and environmental baseline techniques, Internal Regulation and involvement with the Safety Directors Forum Working Groups and improvements in root cause analysis.

However there were a number of shortfalls to be addressed, particularly around the consistency and quality of documentation submissions.

11 LUNCHTIME PRESENTATION

presentation that outlined the purpose of, and some of the current issues surrounding the the purpose of, and some of the current issues his presentation and looked forward to understanding how some of the lessons learned have been embedded into future work. They also requested ongoing

communication to allow the regulatory programme to be aligned into the

Safe, Secure and Clean operations.

12 SCIENCE & TECHNOLOGY

gave and overview of Science and Technology

ONR advised that AWE should provide a comprehensive description of what facilities are to be used for when making future PRS submissions. This will enable the regulator to provide targeted advice.

13 SITE

provided an overview of Site

A key observation was that one to one conversations with the regulator appear to be more productive and lead to a more frank and open dialogue than larger forums. All agreed to consider this as part of ongoing communications.

ONR commented that the regulators need to improve communication on the potential regulatory risk implications of AWE programme changes.

14 ASSEMBLY & EXPLOSIVES

provided and overview of Assembly and Explosive Operations

HID requested that the regulators must be given adequate lead time in which to consider submissions. Changes to document or site visits dates should be communicated to the regulatory community as soon as possible to enable the regulator to re-schedule their work loads were possible.

This was illustrated with the **constant of the which has been delayed and is** now impacting on the regulators resource availability.

15 FISSILE OPERATIONS

gave an overview of Fissile Operations

ONR commented that early regulatory involvement with re-kit projects is important to ensure the right regulatory position. It was also indicated that it would be helpful to all parties if submissions could be grouped in order to reduce the processing and review times.

16 CAPITAL PROJECTS

gave and overview of Capital Projects

ONR requested AWE supply a consolidated list of major projects submission documents together with the planned submission dates.

ACTION: CY/14/02:

17 REGULATORS SUMMARY

ONR

- Regrets as presented were broadly agreed and were accurate and as expected
- Right behaviours are being demonstrated at senior levels within AWE
- Need to improve the quality and consistency in relation to some document submissions
- Response to incidents is good

There is a need to develop a common understanding of terminology

With regard to the presentations:

- Messages are positive
- A lot of information was presented. The issuing of the annual report prior to the meeting would enable all to review and provide quality input and comment and should be considered in future
- Positive response to AWE internal regulation activities
- Language used in the formal written report should reflect the openness and honesty demonstrated during the formal meeting
- It was a good meeting although there may be some recommendations to change the format for the future

HSE

The HSE expressed interest in incidents which result in injury when hazardous materials are involved

EA

Reiterated the importance of:

- Early engagement
- Quality of submissions
- AWE to continue to strive to become an "Intelligent Operator"
- AWE should consider producing a compliance statement against all appropriate regulatory requirements

18 WASH UP

Julie Taylor thanked the regulatory community for their help in ensuring AWE continues to meet its licence conditions and other statutory commitments and for providing timely support when requested.

The regulatory community also expressed its thanks to AWE for the commitment and effort provided to make this annual review meeting a success.

19 ACTION MANAGEMENT

The list of actions is shown at Annex C.

20 LIST OF ANNEXES

20.1 Annex A: Review Slide Pack

20.2 Annex B: "POST IT" Capture Sheet

20.3 Annex C: List of Actions

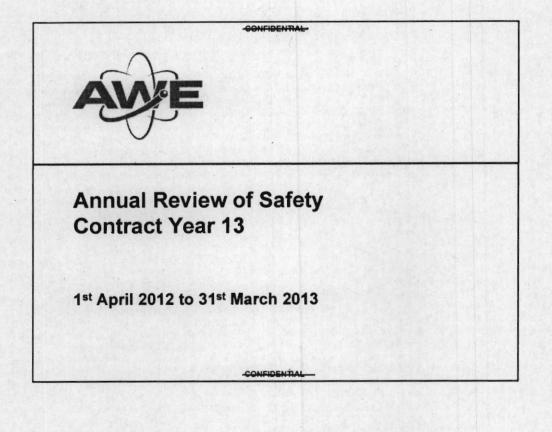
21 **REFERENCES**

Meeting Terms of Reference (TBC)

Annex A

REVIEW SLIDE PACK

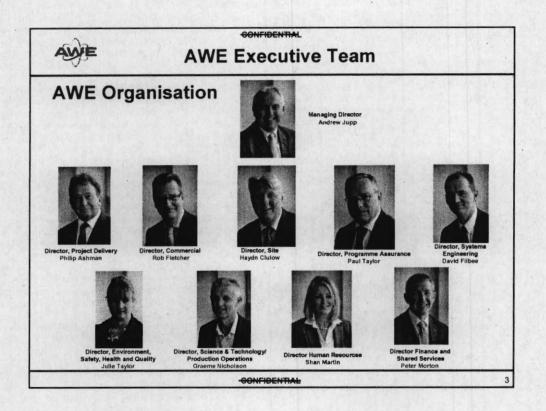
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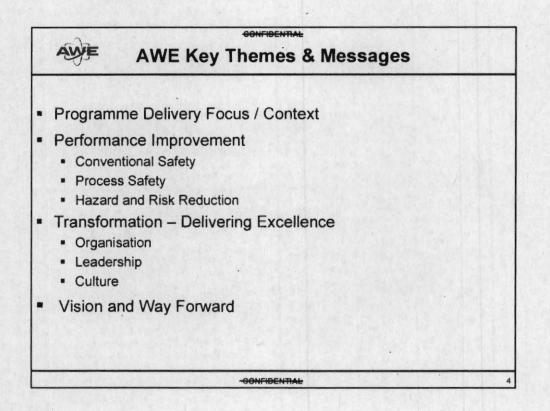


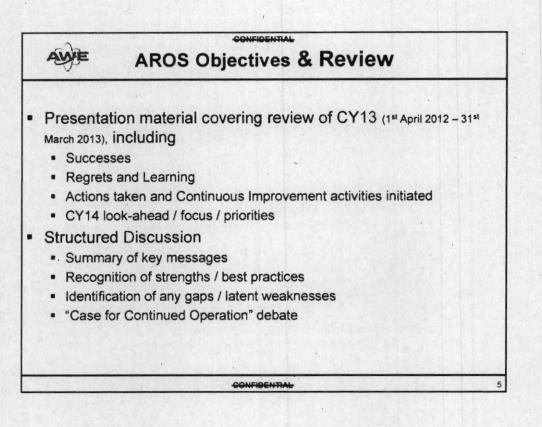
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Co	mpany Performance	
	11:00: Welcome and Today's Key Messages	Julie Taylor
	11:10: Assurance Moment	
•	11:15: ESH Performance	
	11:30: Transformation	
•	11:40: Major Hazards (Process, Nuclear, Explosive, Environment)	
•	12:05: Internal Regulation	
•	12:15: Learning from Experience	
•	12:30: Questions / Feedback	Stakeholders
Op	erational Performance	
	12:45: Working Lunch / Programme overview	
	13:45: Science & Technology	
	14:05: Assembly & Explosives	
	14:30: Fissile Operations	
	14:55: Coffee Break	
•	15:10: Major Projects	
•	15:35: Sites Programme	
	16:00: Overview	
•	16:15: Questions / Feedback / Work going forward	All
	16:30: Meeting Close	
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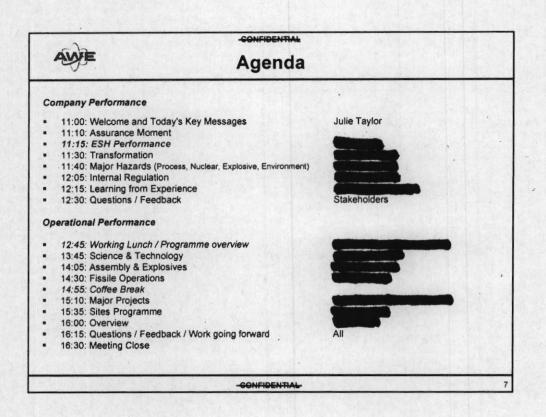
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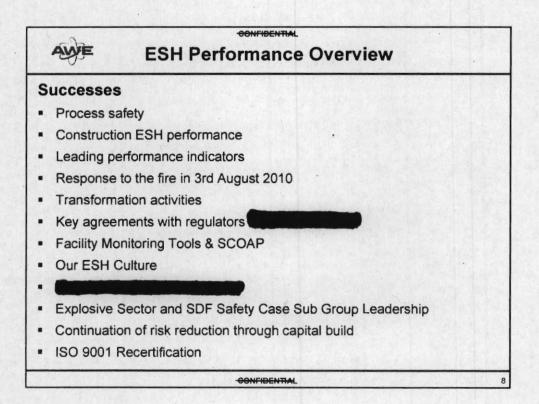




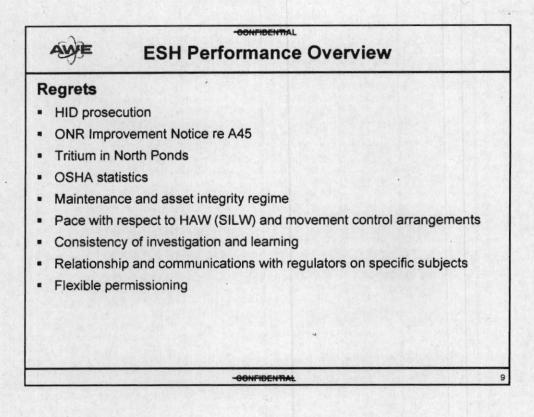


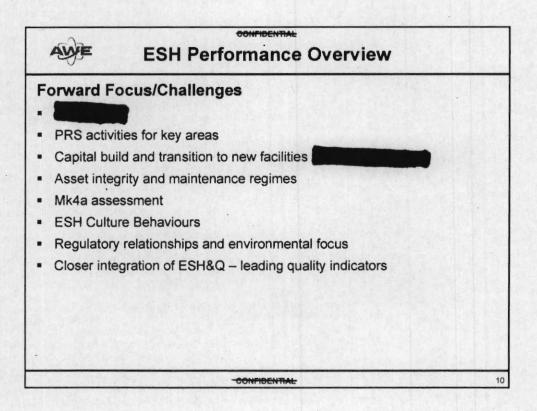
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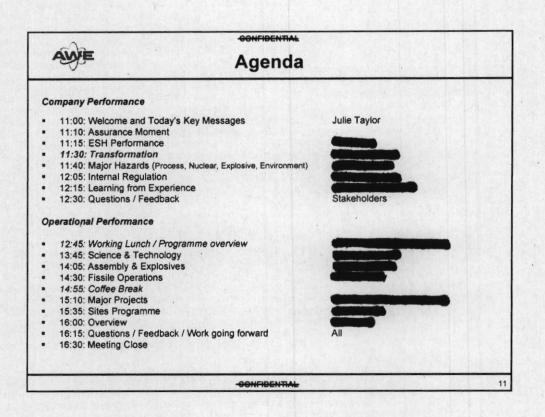


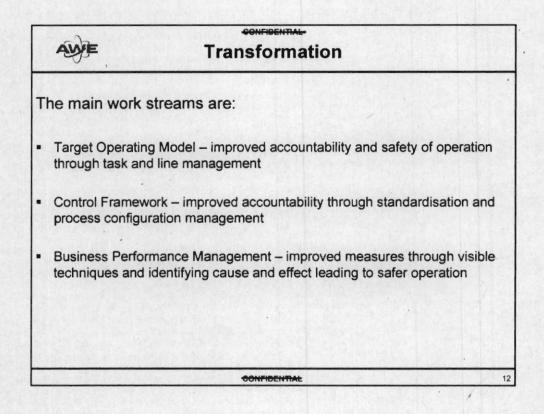


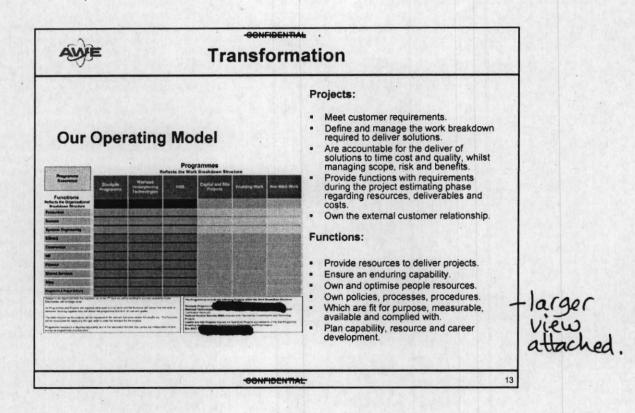
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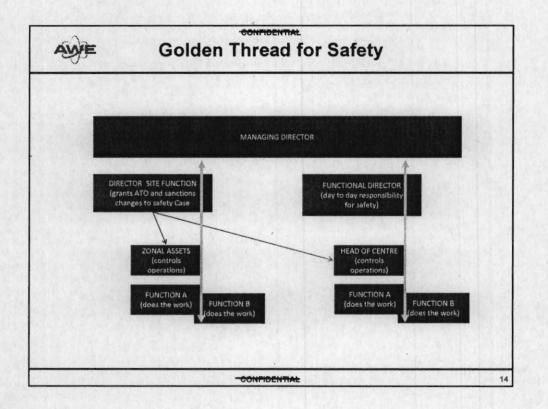










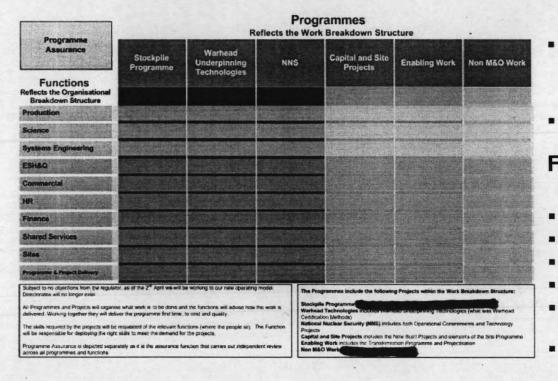


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Transformation

Our Operating Model

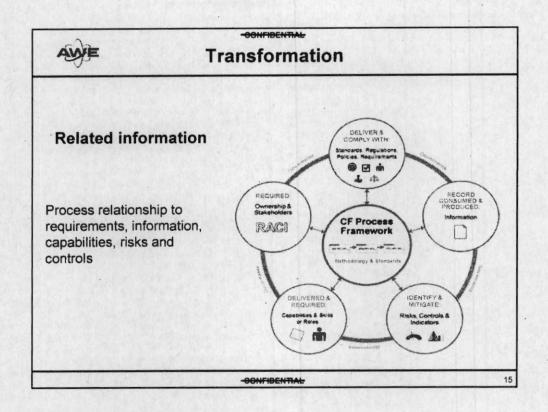


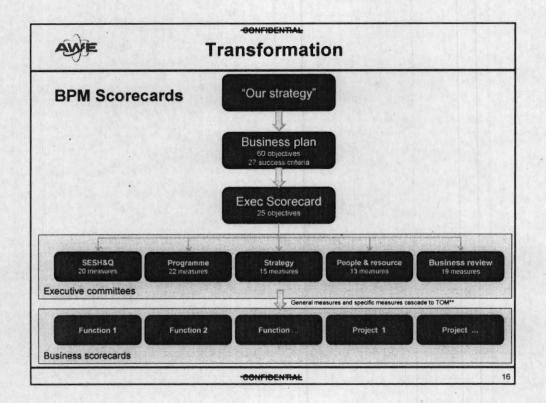
Projects:

- Meet customer requirements.
- Define and manage the work breakdown required to deliver solutions.
- Are accountable for the deliver of solutions to time cost and quality, whilst managing scope, risk and benefits.
- Provide functions with requirements during the project estimating phase regarding resources, deliverables and costs.
- Own the external customer relationship.

Functions:

- Provide resources to deliver projects.
- Ensure an enduring capability.
- Own and optimise people resources.
- Own policies, processes, procedures.
- Which are fit for purpose, measurable, available and complied with.
- Plan capability, resource and career development.

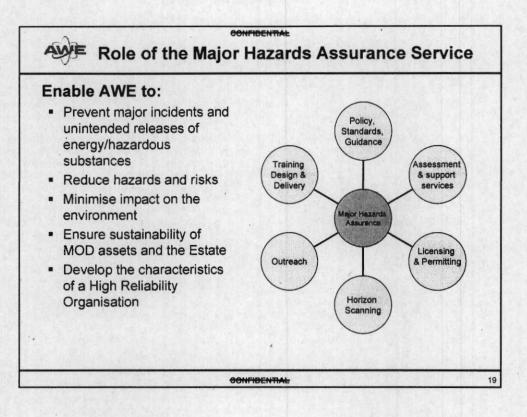


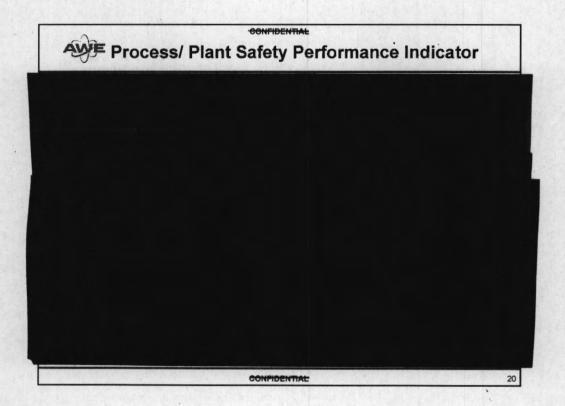


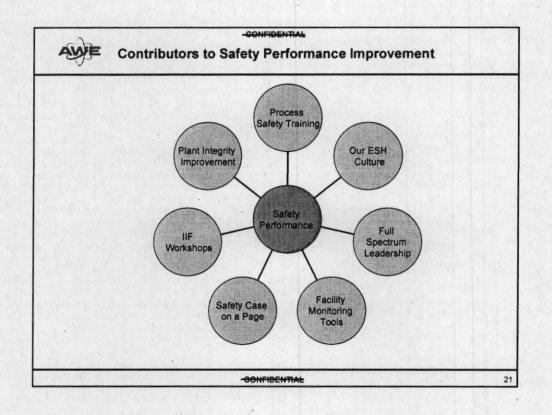
AVE	Transformation	
Next Steps	•	
 Embedded and performance 	refine TOM – help AWE show greater deliver	y and safety
 Step up delivery delivering clear 	of the Control Framework – simplified and s accountabilities	treamlined
Launch transpar safety and reduce	rent performance measures across the busine ce risk	ess to improve
	ework for prioritised process improvement wit ety, security and performance	h OE to further
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ANDE	Agenda	
Company Performance		
 11:00: Welcome and 	Today's Key Messages	Julie Taylor
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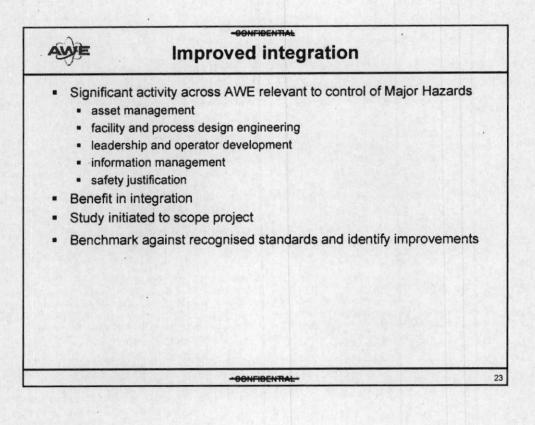


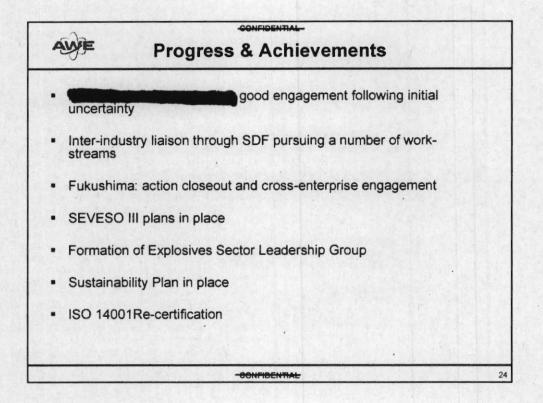


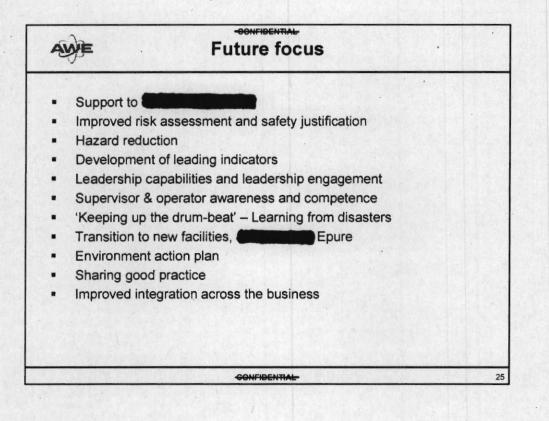


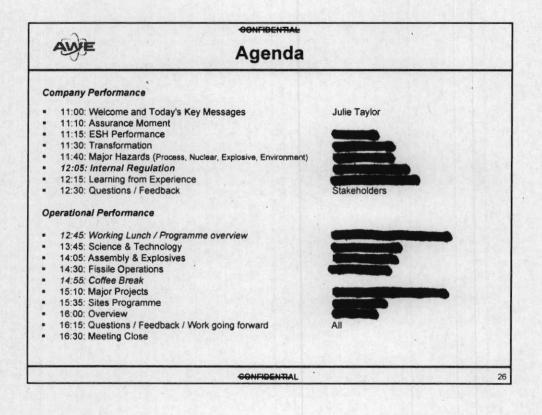
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Cross-cor	npany team led by Director, Programme Assurance
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 Salient the 	
	ing and evaluating major hazards
	ship and supervision ural adherence
 Proced Competition 	
 Key action 	15
	s Safety Leadership Training & Senior Management walkthroughs
	ed science and engineering input to risk assessment
	Supervisor Roles and Accountabilities
	e Operator hazard awareness
 Develo 	p leading indicators and detection of weak signals
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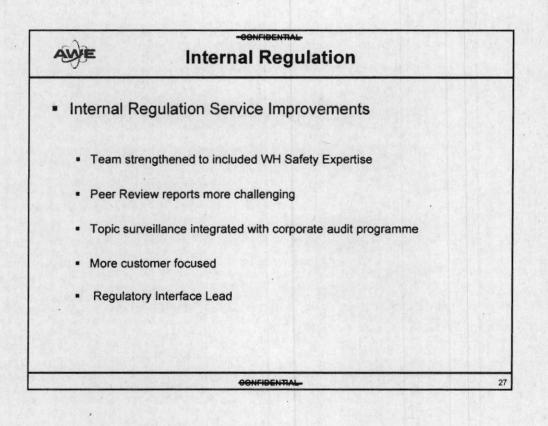
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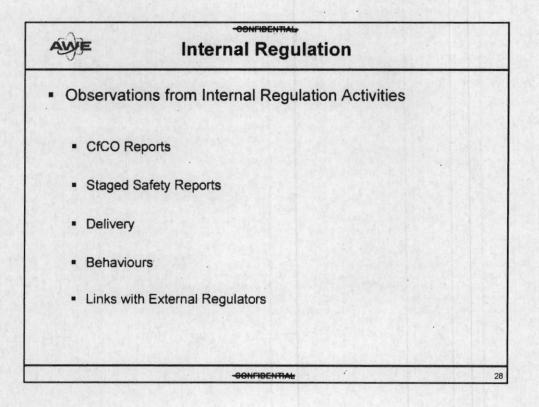






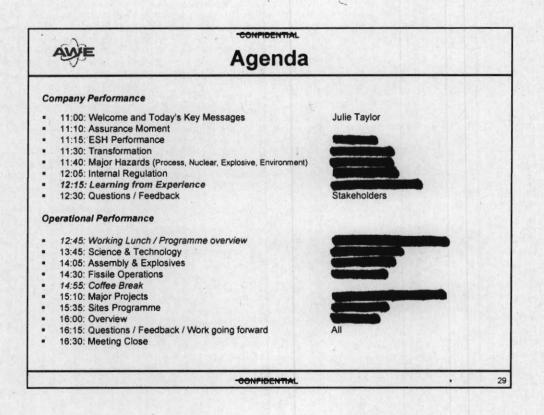


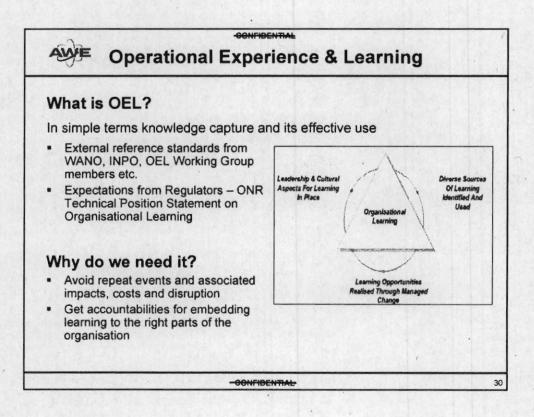


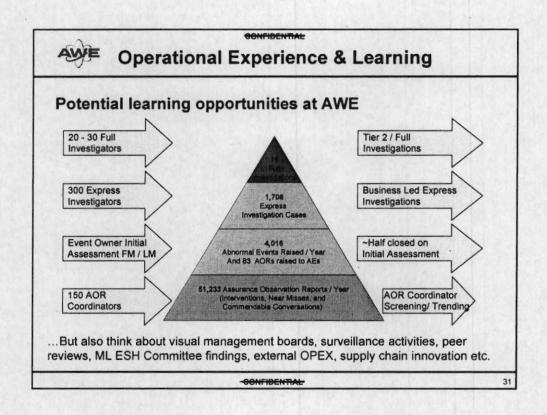


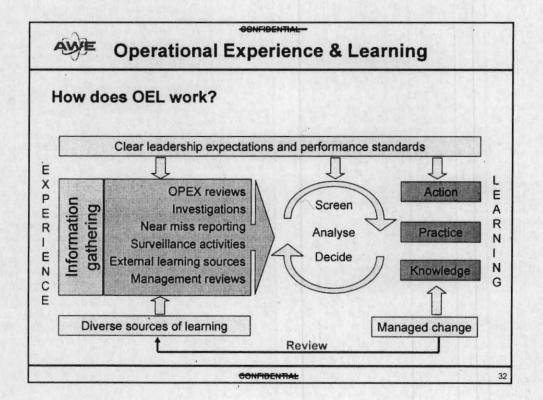
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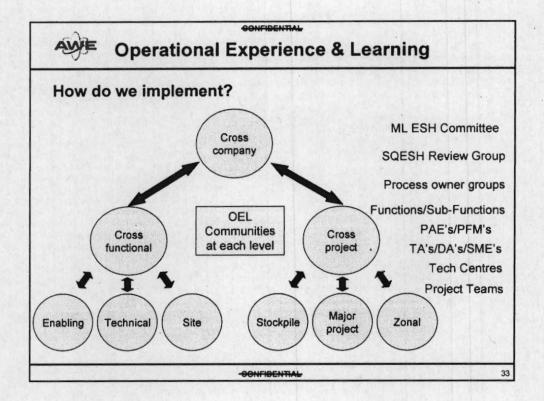
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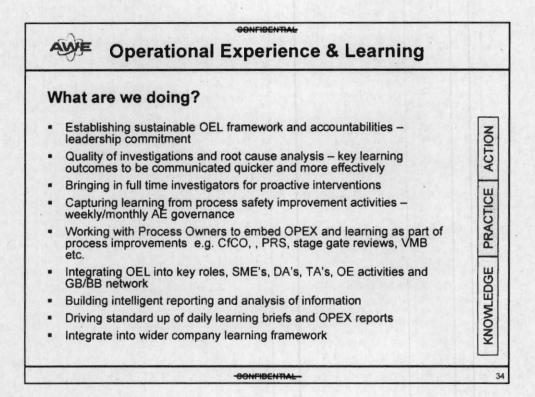


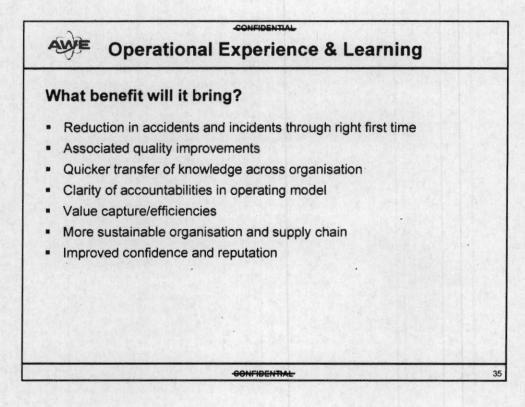








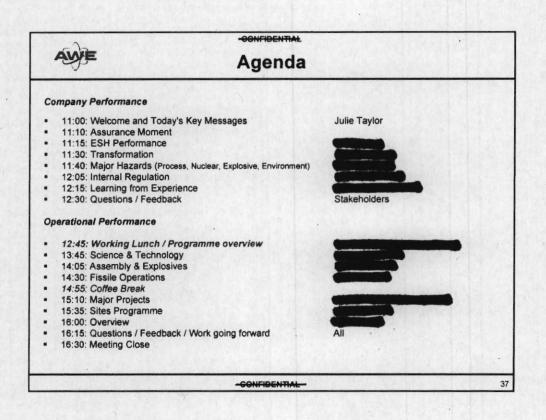


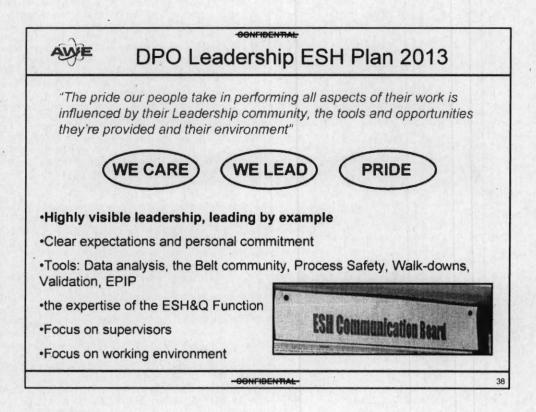


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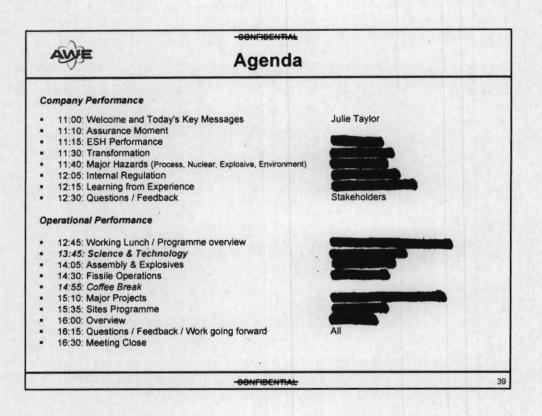
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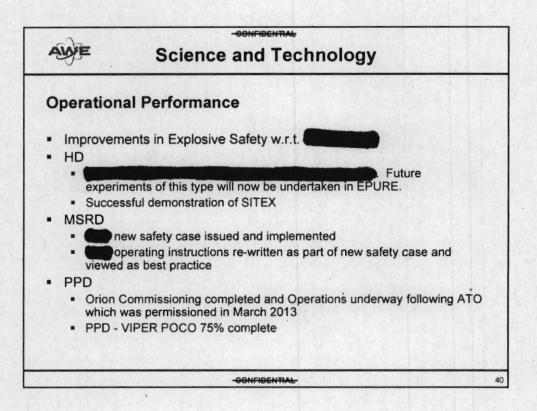




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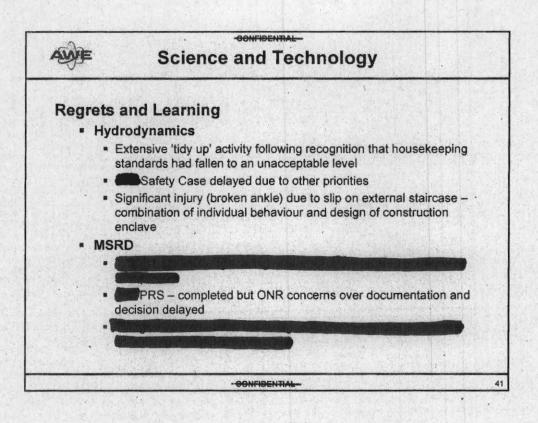
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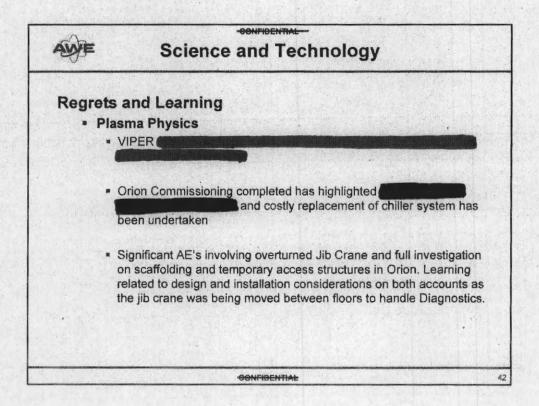


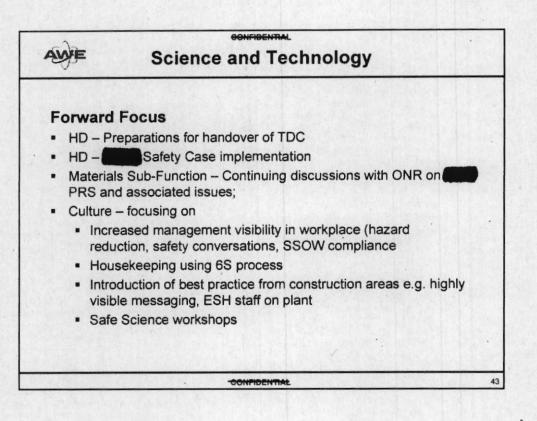


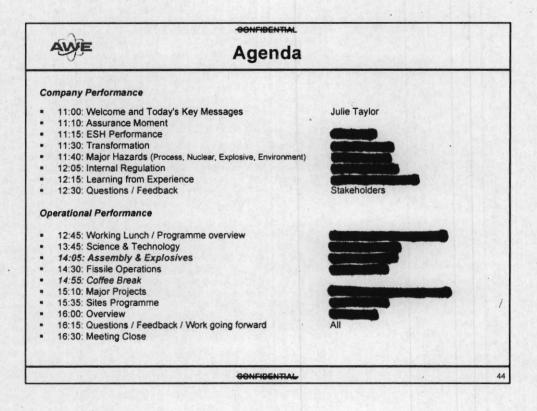
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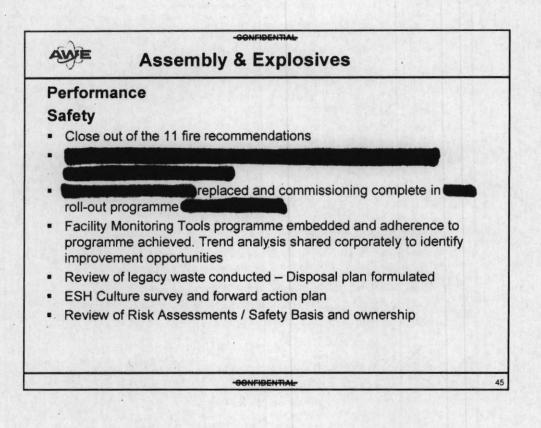
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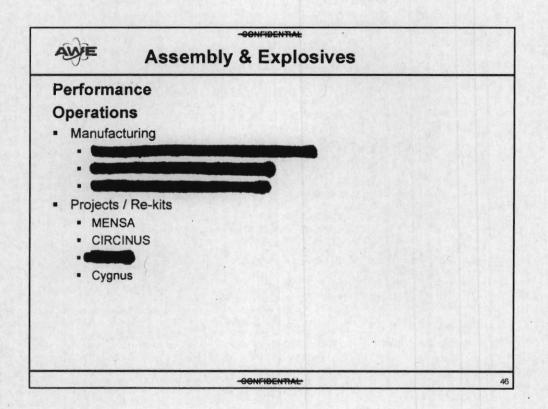


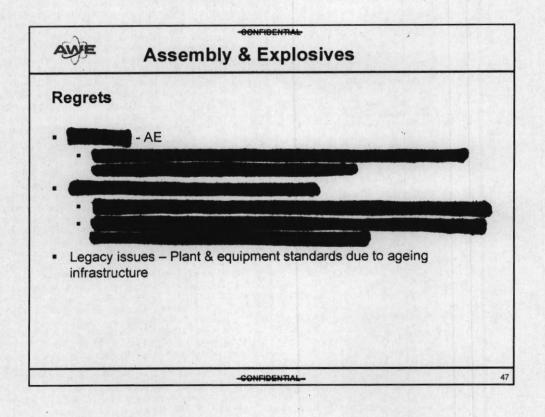


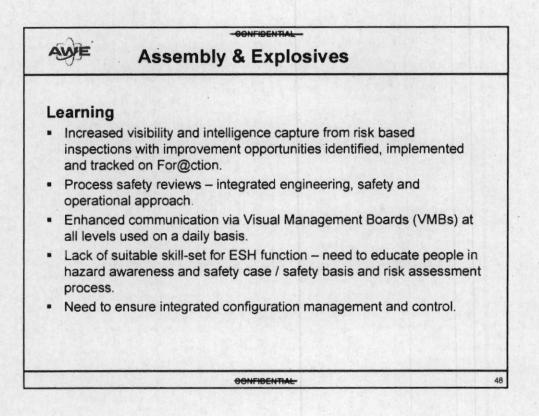


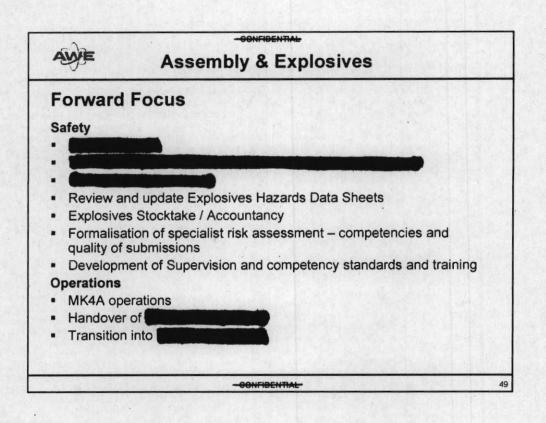


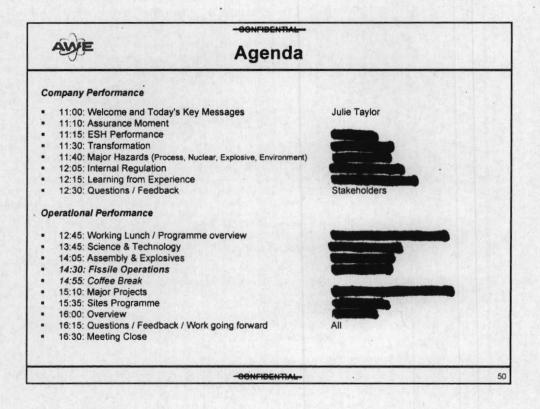




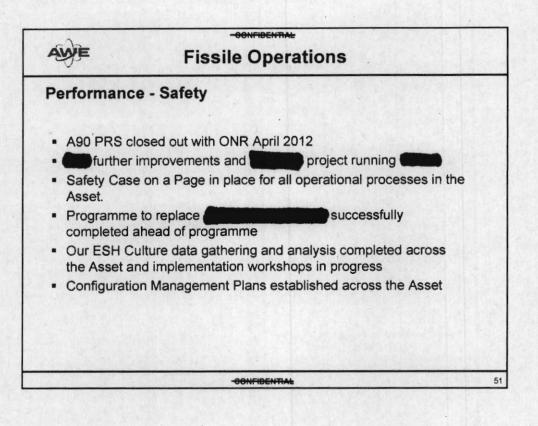


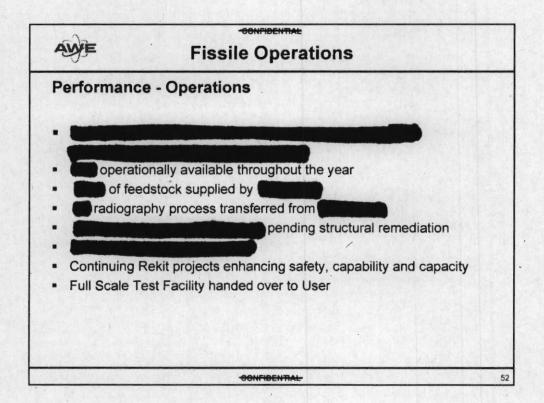


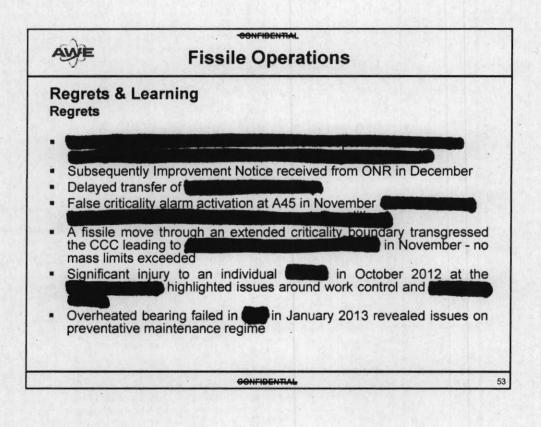


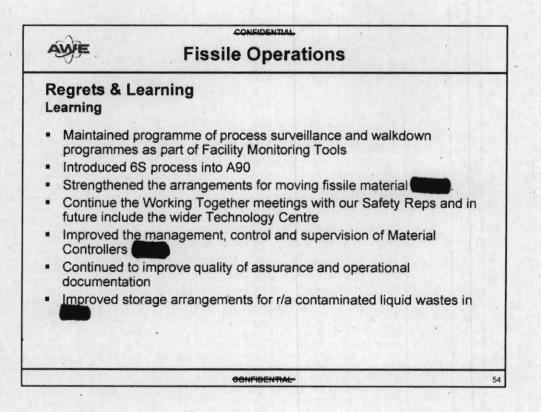


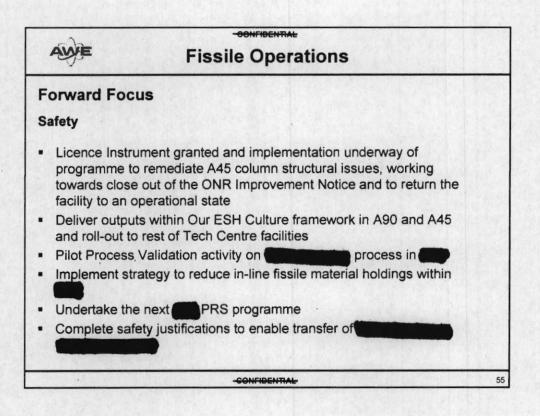
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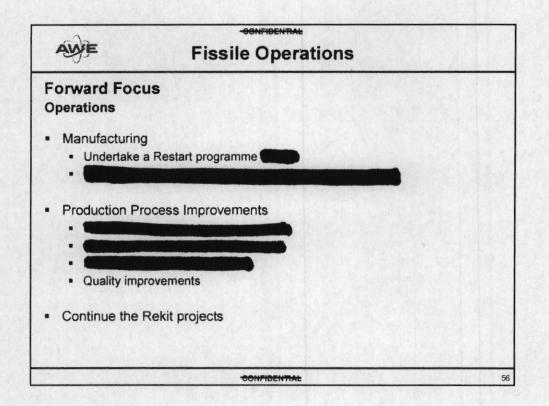








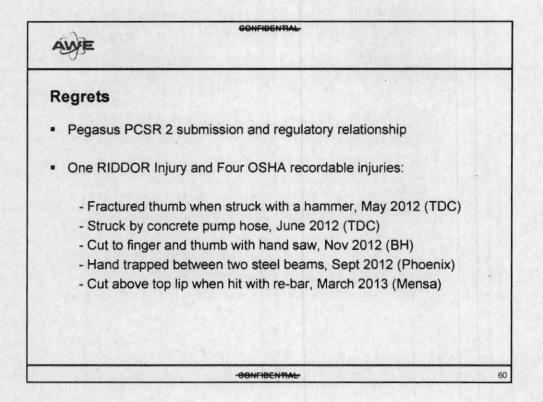


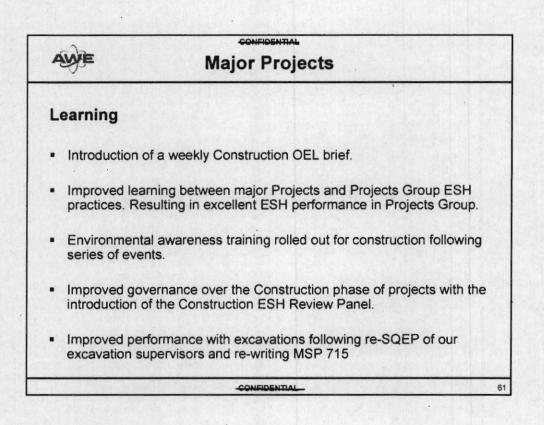


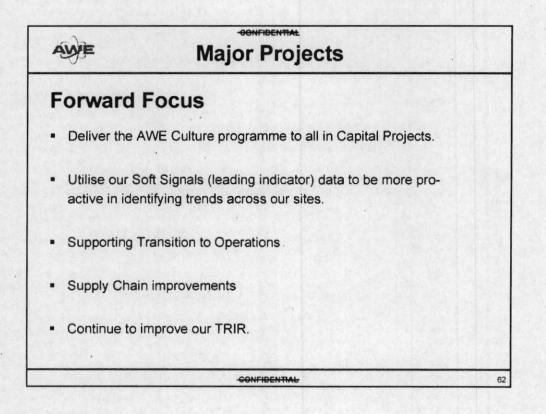
AVE	Agenda	
Company Performance		
11:00: Welcome and T	oday's Key Messages	Julie Taylor
11:10: Assurance Mon	ient	
11:15: ESH Performan	ce	
11:30: Transformation		
	Process, Nuclear, Explosive, Environment)	
12:05: Internal Regulat		
12:15: Learning from E		
12:30: Questions / Fee	dback	Stakeholders
Operational Performance		
12:45: Working Lunch	Programme overview	
13:45: Science & Tech		
14:05: Assembly & Exp	losives	
14:30: Fissile Operation		
14:55: Coffee Break		
15:10: Major Projects		
15:35: Sites Programm	e	
16:00: Overview		
16:15: Questions / Fee	dback / Work going forward	All
16:30: Meeting Close		

AWE	Agenda		
Company Performance			
 11:00: Welcome and Toda 	y's Key Messages	Julie Taylor	
 11:10: Assurance Moment 			
11:15: ESH Performance			
 11:30: Transformation 			
 11:40: Major Hazards (Proc 	ess, Nuclear, Explosive, Environment)		
 12:05: Internal Regulation 			
 12:15: Learning from Expe 			
 12:30: Questions / Feedba 	ck	Stakeholders	
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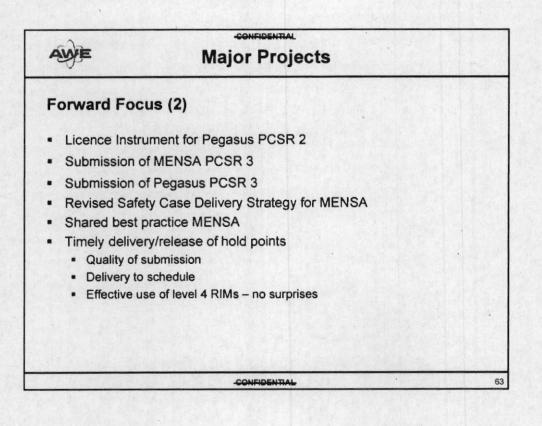
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M	ajor Projects
ESH Performance	
 Hours worked – 3.75 million (Injuries – 1 x RIDDOR/Days A 1 x OSHA Days Away case - 3 	way Case - 3 x OSHA Medical Treatment Cases
AORs Raised – 33,776 Total Recordable Injury Rate First Aid Injury Rate	(Average of 2,815 per month) April 2012 – 0.41 March 2013 – 0.38 April 2012 – 4.17 March 2013 – 2.09
Headlines	
 Sep 2012 – British Safety Cour Oct 2012 – British Safety Coun Oct 2012 – British Safety Coun Dec 2012 – Mensa Project – 1 Feb 2013 – Projects Group – 1 	I (6 consecutive Gold Achievement Awards). ncil 5 Star SMS Audit – 5 Stars. (2 nd Award) ncil – Sword of Honour (International). (2 nd Award) ncil - 5 Star EMS Audit – 5 Stars (1 st Award) calendar year without an OSHA Recordable. 2 months without an OSHA Recordable All Injury Rates for construction since recording.
2	

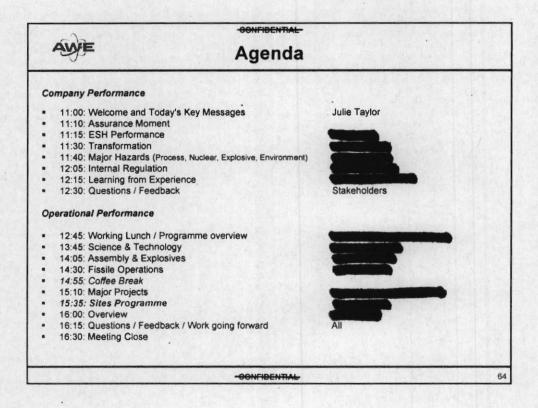


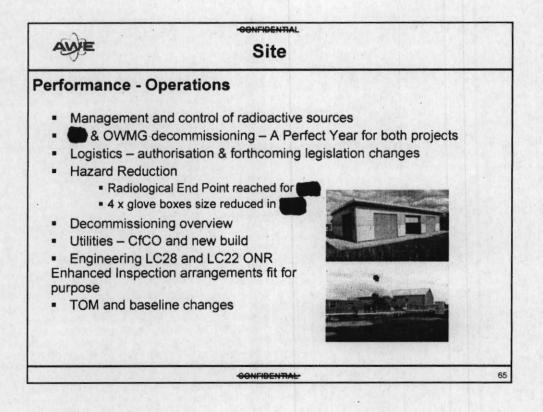


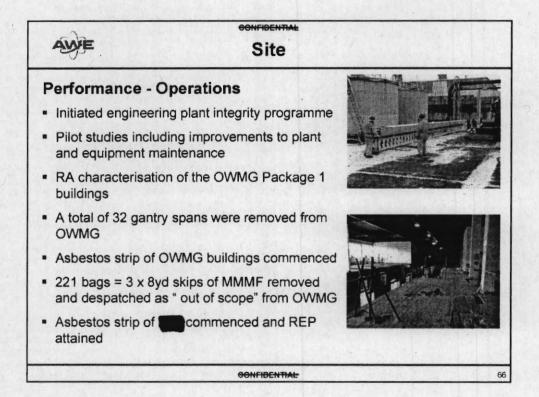


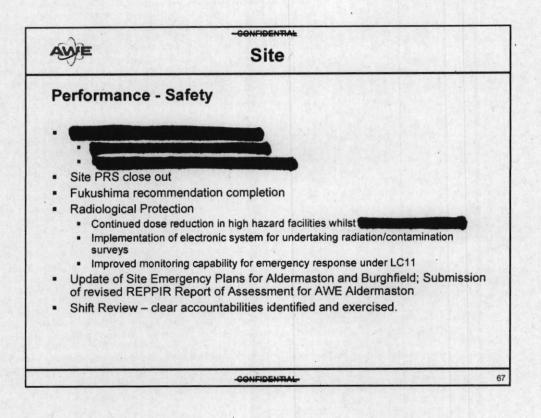
Page 41 of 53

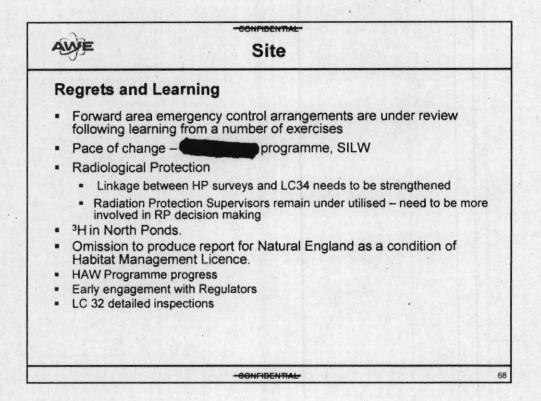




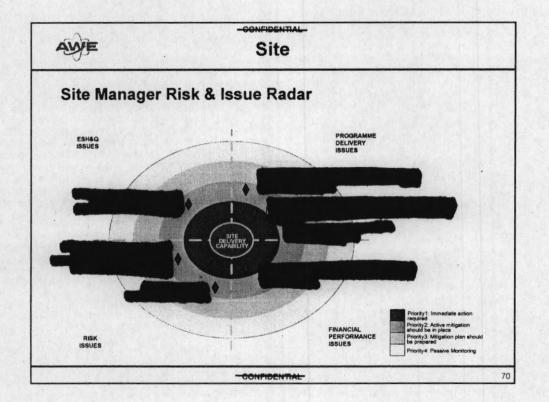


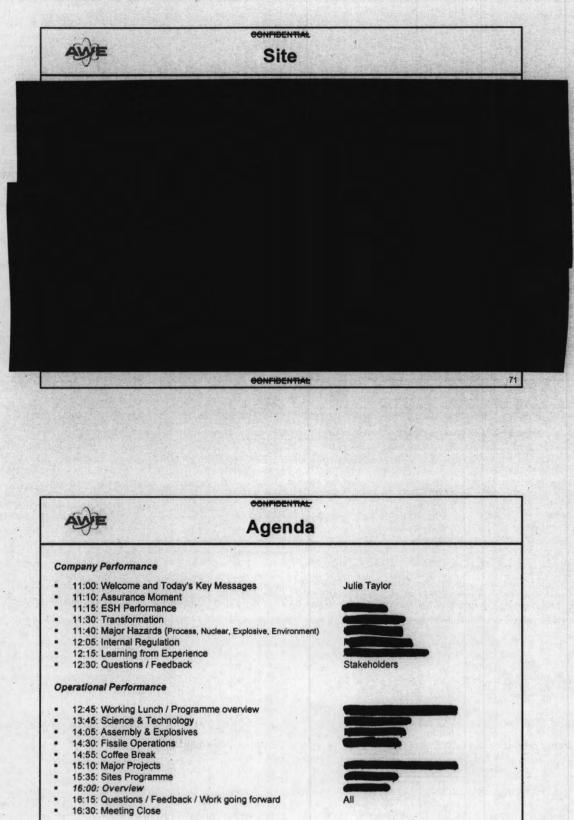






AY	Site	
Fo	rward Focus	
Sa	fety	
	Develop nuclear and environmental baselines and configuration control	
	Improve capability competency/training & align demands with service provision	
	SIA on safety basis process to ensure increase safety benefit and value	
•	SILW programme	
	Corporate PRS programme	
	Change to the methodology for demonstration of emergency arrangements at AWE(B), then AWE(A)	
	Site Control - Control Room Strategy	
	Control of releases under LC34	
	Implementation of new dosimetry reporting system (DRAWE)	
	Commencement of Safety Case update	
	Continued reduction in LC32 holdings (Temporary accumulated waste)	
•	Continuing with Nuclear Fire Risk Assessment –	
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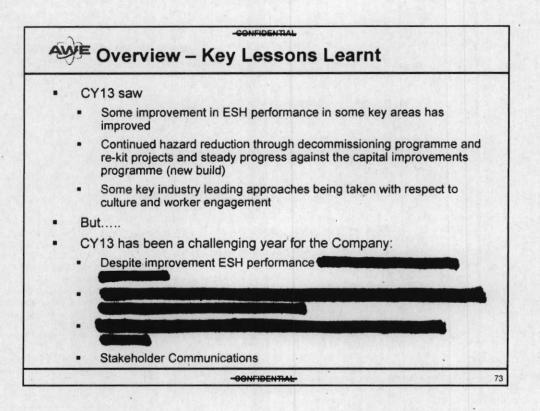


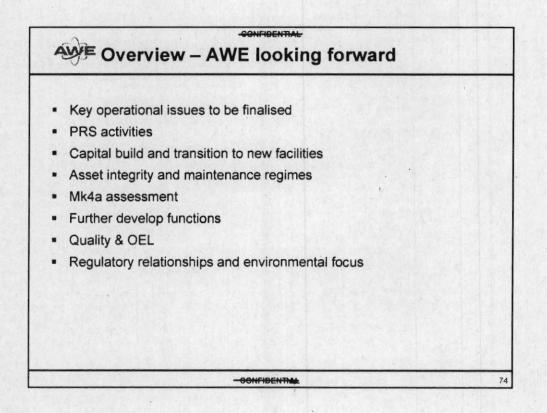
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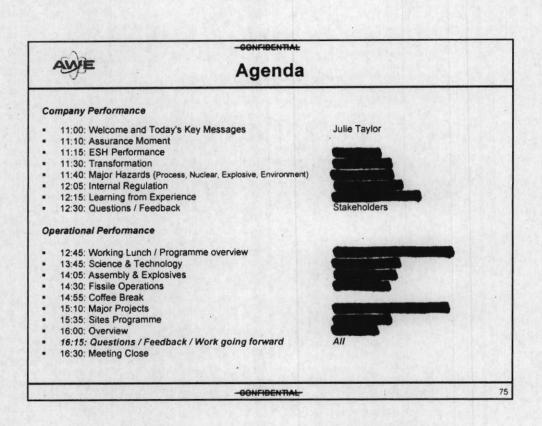
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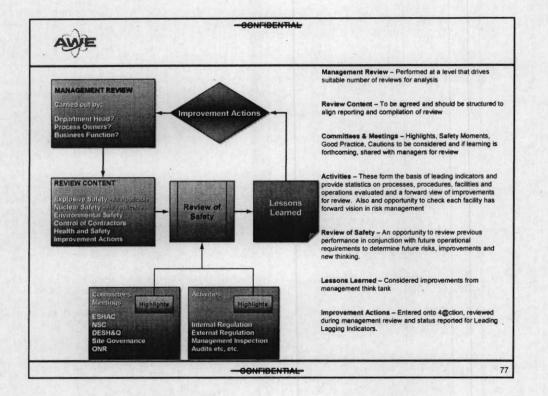
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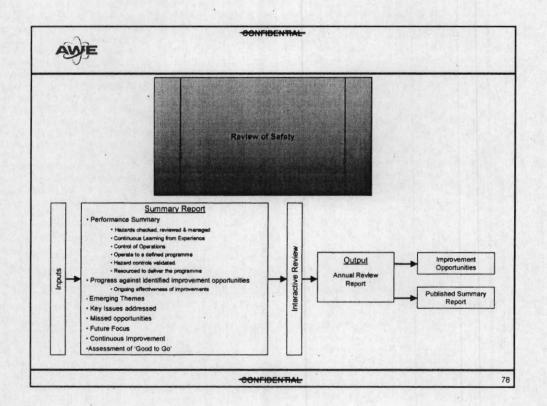


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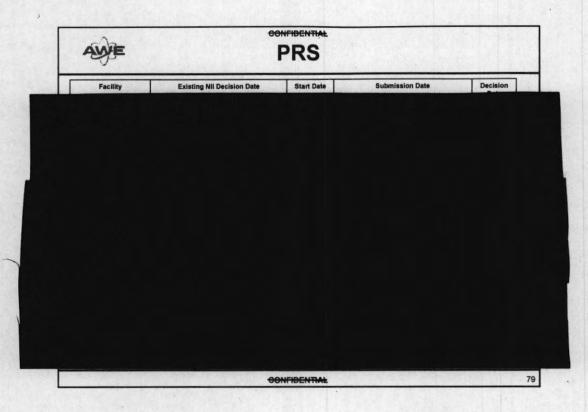
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A	AFE								
14/82/13	04/03/13	1-182810		118.043				11/83/13 ettach	
10/02/13	12/02/13	1-105W 4Y	Bearing started to everythe at southing of whit to	118-042				15/02/13 5 Attack	.710
21/01/13	31/01/13	1-1718/0	A stivation of a fire alarm due to smoke omanating from ducting above an enclosure containing o fan and meters	118-041				67/02/13 Billashad	<u></u>
23/91/13	23/01/13	1-172504	A num bar of legacy oranium stide tampies, have been identified as not being stored in the type of the specified by the relevant Critics tilly Characte Contribute.					5	tinte .
08/01/13	1000000	1-100400	Contamination found following pipework	118-039					
12/12/12		1-1NW 0F8	hightighted a possible discrepancy with a nea-	118-038					
	1.								
20/11/12		1-1N V D 74	Contamination found during imo ramoval	118-037	Y				0.00
18/18/12		1-111084	C.B.I.m.s.intenance were correling out Porge fact up testing. During the testing the standay fac they be the date of the Santa factor of Say 2 Porge face.	118-033	Y		Y		View
		in the							anach
10/10/12	10/10/12	1-118488	A planet of the section of the format results of initial sectory of 25 columns a section of a sector a planet of the sector of the sector can be an effective and the sector tamping has setting a K even set Control Training - Our to the sector sector setting and the	110.034	Y		¥		
\$5/10/12	18/10/12	1-15-1050	WCT ine move was stepped and an abaarm at treat raised Staff cont to the evolution control. procedural processionary regularem ant due to	116-023	Yes	-	Y.1.		
05/10/12	05/10/12	1-118488	enginesring acass this fallews as from	118-032	Y	-	Y		
22/08/12	20/00/12	1-1 IN Q 4 U	desommissioning Medelar Containment System (MCS).	118-031	Y		¥		
21/08/12	23/08/112	1-1 IN 4 8 8	Add Building Column Carronian	1.14-030		-	Y		
16/08/12	Sher we	1-1 ID # YC	Disting com mite contag af / 67/, When	118-028	Y	-	¥		_
		1-111876	Interested Company	118-027	Yes	-	Y		
27/67/12	08/08/12	1-189514	Unknows object found in lecked cabinet	116-022	Yes	-			

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										11/03/13. Part Battached to
14/02/13	04/03/13	1-1828LU		11	6-043	yes		yes		AE
10/02/13	12/02/13	1-1Q 5W 4Y	Bearing started to overheat causing oil mist to trigger smoke alarm. A WE F&RS and Shift services attended.		16-042	yes		ves		15/02/13. Part B attached to A E
10/02/13	12102/10				1999 - 1999 (A)					
31/01/13	31/01/13	1-1 P T M JQ	Activation of a fire alarm due to smoke emanating from ducting above an enclosure containing a fan and motors.	11	16-041	yes	-	yes		07/02/13 Part attached to AE
			A num ber of legacy uranium oxide samples, have been identifed as not being stored in the							01/02/13 Part 1
23/01/13	23/01/13	1-1P2504	type of tins specified by the relevant Criticality Clearance Certificate.	11	16-040	yes		yes	-	attached to AE
			Contamination found following pipework							1.2.5.2
08/01/13	10/01/13	1-10 QYQQ	removal.	1	16-039	yes		yes	-	
12/12/12	17/12/12	1-1 N W 0F 6	highlighted a possible discrepancy with a non- fissile moderator move		16-038	yes		yes		100
12112112	1112112	IT IN IN OF O	ineene in ouerator in ore	-						
18/12/12	18/12/12	1-1NYD74	Contamination found during lino removal	1	16-037	Yes		yes		
20/11/12	21/11/12	1-1M M 8W 2	Criticality alarm sounded due to activation of faulty detector head.	1	16-036	Yes	-	yes		
			C&I maintenance were carrying out Purge lock up testing. During the testing the standby fan tripped and the backup fan also tripped		•					
19/10/12	22/10/12	1-1L10X6	resulting in the loss of the Zone 1 Bay 2 Purge		16-035	Yes	-	Yes		
19/10/12	23/10/12	1-111020			10-035	1.05				a second
10/10/12	19/10/12	1-1 IN 488	Following on from earlier Event, results of initial survey of 25 columns sent to the ONR	1	16-034	Yes		Yes		
			A planned move of was taking place within the facility swarf sampling lab using a Movement Control Trolley. Due to the incorrect position of the MCT the move was stopped and an abnorm al							
05/10/12	18/10/12	1-1 K 10 S 0	event raised. Staff sent to the evacuation centre -	1	16-033	Yes	-	Yes		-
05/10/12	05/10/12	1-110 488	Start sent to the evacuation centre - procedural precautionary requirement due to weather conditions. This follows on from engineering assessment after 1-11N488.		16-032	Yes		Yes		
22/08/12		1-1IN Q 4U	Storage of un-assayed waste in a decommissioning Modular Containment System (MCS):		16-031	Yes		Yes	RICC office	
21/08/12	23/08/12	1-1IN 488	A 45 Building Column Corrosion	1	16-030	Yes		Yes		4
										122
16/08/12	tbc	1-1IDEYC		1	16-029	Yes		Yes		
			During commissioning of FSTF, when discharging a inert gas, a bursting disc		12 ALAS					1-1-1-1
08/08/12	09/08/12	1-111HT6	operated	1	16-027	Yes		Yes		
27/07/12	06/08/12	1-1HG 5 14	Unknown object found in locked cabinet	1	16-022	Yes		Yes		

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Annex B

POST - IT CAPTURE SHEET

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POST IT NOTE CAPTURE SHEET

ANNEX B

Impact of AWE resource needs impacting on ONR approval periods. Eg Safety Case authors	Annual Review of Safety Timing in Feb/Mar Link in with AWE management review	Importance of accurate and up to date Hold Point Control Plan	IR Improvements required on right first time document submissions	(HID) More regulator response provided in the meeting/session if provided with earlier copy of report	AWE's view of compliance missing: LCs ACs Legislation	
Quality of documentation & evidence submission	Reluctance to raise incidence reports Education of AE process and reporting	Early engagement with regulator	IR Credit for risk reduction programmes. Eg capital build and decommissioning. Cultural change to programmes takes time to embed:	Good session but would benefit from earlier issue of report	More measurable/quantifiable SS to suggest org for AWE review	
Impact of AWE programme changes on regulator resource availability. Eg Early communications Hold Point Control Plans	Keep engagement open & honest. Show where this is bringing improvements	Permissioning Strategy	golden rules good idea	Site ability to identify issues ONR could learn	How does AWE respond to Internal Regulator challenge	
Joint opportunities Develop links with Internal Regulator	Be wary of scope creep Facility taking on wider remit	(ONR) How do we keep focussed on key issues Early issue of report	Safety Improvement Programme needs to be more effective. Eg criticality programme (ONR) Messages aligned as minimal	(EA) AROE very specific Opportunity for reg feedback	Julie Taylor Busy programme Proud of achievements	
Clarity & improvement of communication of respective risks &	Explore grouping of Cat A modifications in an area to reduce workload	IR Common Goals/Common understanding between AWE and regulators	Comment from regulator (ONR) Importance of regulator	(ONR) Maintain balanced view Look ahead - how it reflects on overall picture Good to have Internal Regulator	Are we doing the right things JT is customer Build confidence Own reflection Consistent across org (eg Golden Rules)	
issues ONR to and from AWE No surprises Keep Informed	Overall plan of revised submission dates for regulators	IR Regrets accurate Good behaviours of senior management on safety leadership	understanding programme Align AWE/MOD/Regulator to challenges (ONR) Report/slides to align as much as possible (Given FOI)	present - build relationship	Early engagement Quality of submissions Intelligent Operator	

Annex C

CURRENT ACTION LIST

Action Reference	Action	Owner	
CY/14/01	The regulatory community had asked that in future the Annual Safety Report be promulgated in advance of the formal meeting to allow time to review and digest the data.	Head of OEL	
CY/14/02	AWE to supply the regulatory community with a consolidated list of major projects submission documents together with the planned submission dates.		

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