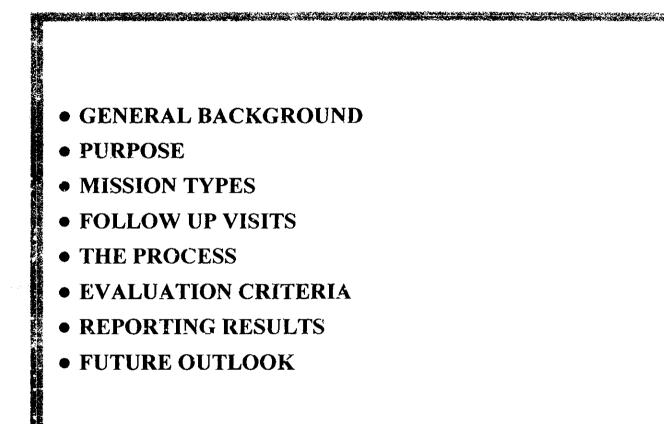
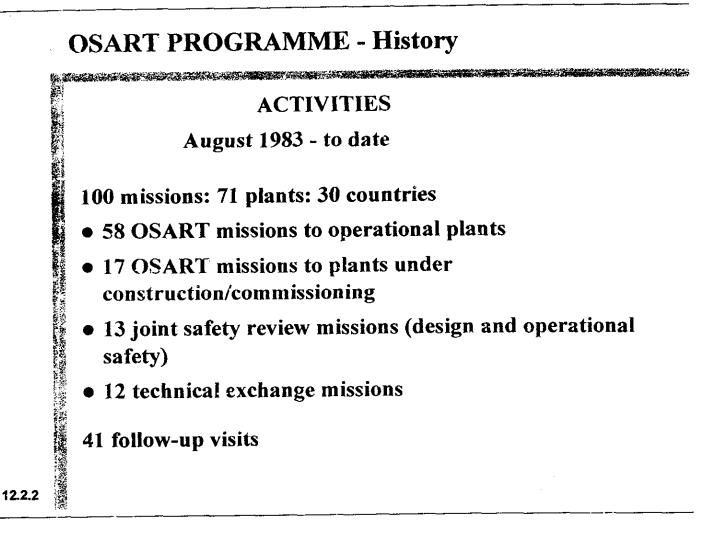
OSART - LECTURE OBJECTIVES





d de

	1		·			<u> </u>
		Missior	n Type a	nd Total		_
Year	OSART	Pre- OSART	SRM	TEM	Total	F/up
Prev.	29	9	-	2	40	
1990	3	4	-	2	9	
1991	4	- -	4	2	10	
1992	4	1		1	6	
1993	2	3	1		6	
1994	4	• · ·	2		6	
1995	5	-	3	1	9	
1996	3	-	3	1	7	
1997	4	_	-	3	7	
Totals	58	17	12	12	100	4

OSART

OSART PROGRAMME - 1996

FS	Kozloduy 1/4, Bulgaria	15-19 January
FS	Bohunice 1/2, Slovakia	6-9 May
S	Temelin, Czech Republic	11-15 March
FO	Flamanville, France	3-7 June
FO	Hamaoka, Japan	10-14 June
S	Khmelnitski 2, Ukraine	10-14 June
S	South Ukraine, Ukraine	8-19 July
0	Bohunice 3/4, Slovakia	9-27 September
0	Daya Bay, China	7-25 October
T	Chashma, Pakistan	13-17 October
FO	Leibstadt, Switzerland	11-15 November
0	Dampierre, France	11-29 November

12.2.4

OSART

OSART PROGRAMME - 1997

0	Quinshan, China	13-31 January
Ο	Laguna Verde, Mexico	10-28 February
FS	Novovoronezh 5, Russia	17-21 March
FO	Ignalina, Lithuania	2-6 June
Т	Kazakhstan	10-16 August
Ο	Yonggwang 1/2, Korea, Rep. of	18 Aug-5 September
Т	China	5-17 October
Т	Mexico	15-17 October
FS	Kola, Russia	24-27 November
Ο	Embalse, Argentina	17 Nov-4 December
$\mathbf{O} = \mathbf{O}$ $\mathbf{T} = \mathbf{T}_{0}$	ollow-up Visit SART Mission echnical Exchange hfety Review Mission	

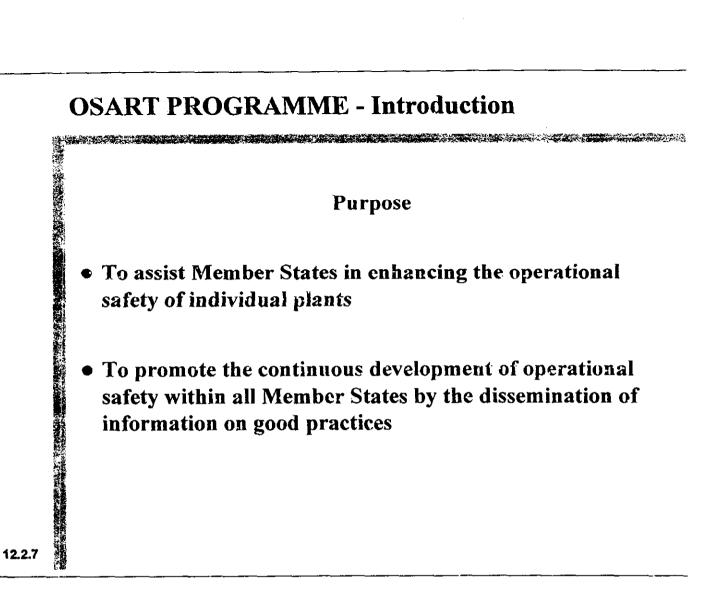
12.2.5

Ĺ

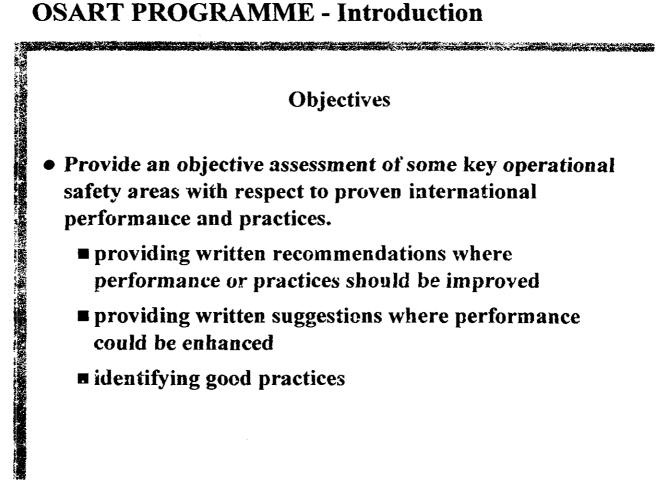
•

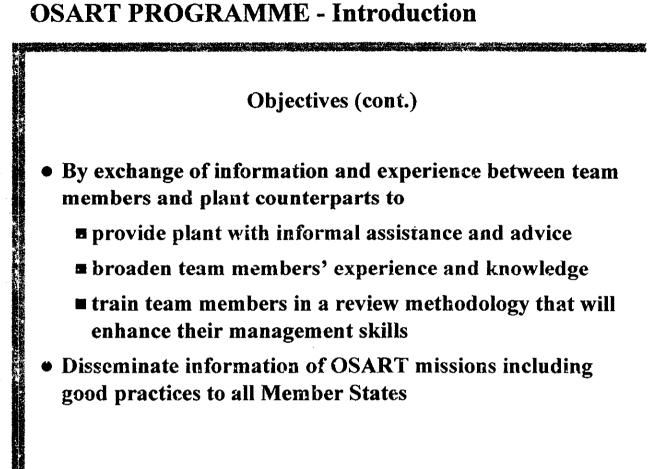
OSART PROGRAMME - Planned 1998

Ð		12-29 January
FO	Beznau, Switzerland	16-20 February
FO	Bohunice, Slovakia	2-6 March
0	Asco, Spain	18 May - 5 June
0	Kazakhstan	
0	Kozloduy, Bulgaria	
0	Ukraine (to be confirmed)	
0	Golfech, France	
FO	Daya Bay, China	
FO	Dampierre, France	
FO	Laguna Verde, Mexico	
FO	Khmelnitzki, Ukraine	
FO	Qinshan, China	
PO	Temelin, Czech Republic	5-26 October
PO	Chansnupp, Pakistan	
S	Zaporozhe, Ukraine	
F = Fo	llow-up Visit O = OSART Missi	on PO = Pre OSART
	chnical Exchange S = Safety Review	Mission



OSART





OSART PROGRAMME - Introduction

Customers

Government

- Mission invited by host country government
- Results reported to host country government
- Results normally released to public

Plant

- Receives safety improvement proposals
- May seek improved public credibility from international review
- Receives external follow-up on improvement actions

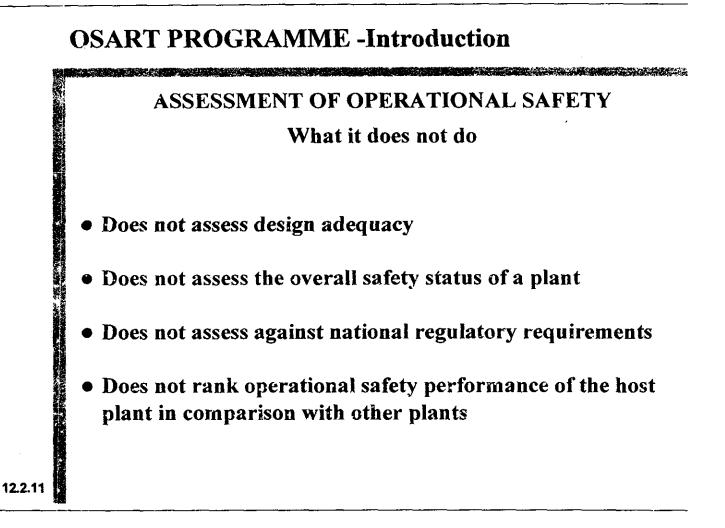
Industry

- Receives database information on improvement proposals and strengths from other plants
- Results influence IAEA documents and programmes

12.2.10

 \sim

OSART



OSART PROGRAMME - Structure and Scope

Scope of review

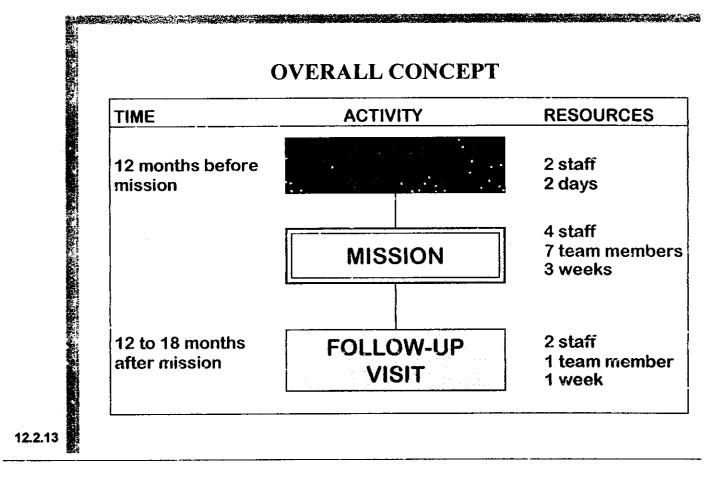
- Management, organization and administration
- Training and qualification

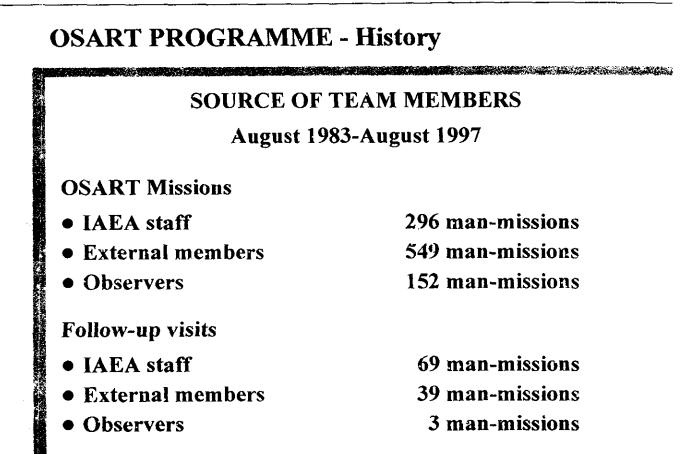
- Operations
- Maintenance
- Technical support
- Radiation protection
- Chemistry
- Emergency planning and preparedness

Review of safety culture is an integral part of the review of each area

12.2.12

OSART PROGRAMME - Structure and Scope



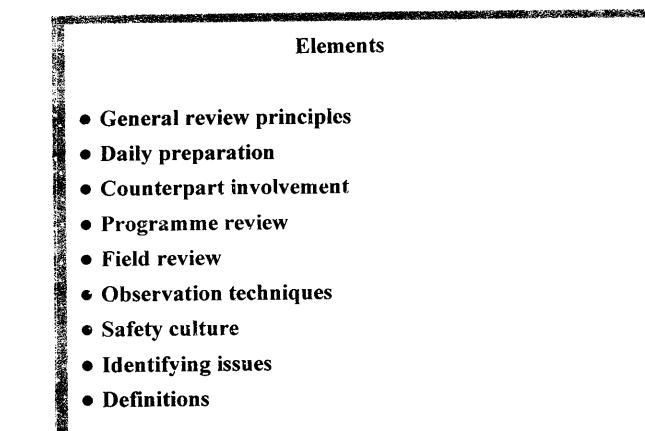


OSART MISSION - Roles and responsibilities



- Team leader, assistant team leader and nine operational safety reviewers
- Cumulative nuclear experience normally over 250 years
- Target team mix
 - one-third first time reviewers
 - one-third previous external reviewers
 - one-third IAEA staff
- Typically up to three observers from countries which have developing nuclear power programmes

12.2.15



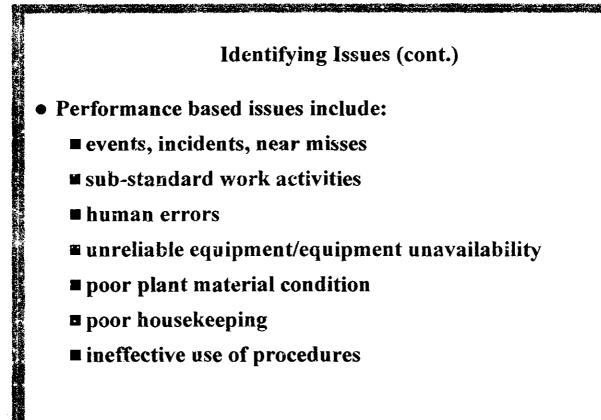
OSART PROGRAMME - Structure and Scope

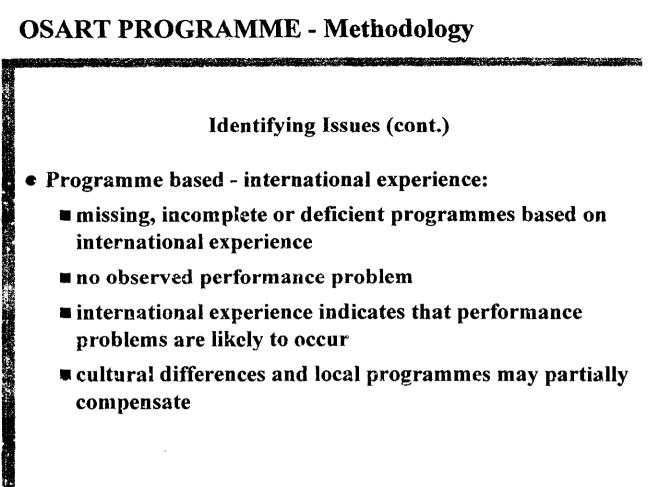
	SAT	SUN	MON	TUE	WED	THU .	- FRI
	•		Entry	* • • • • • • •	· · · · · · · · ·		
	Team	Team	Mtg		Rev	iew	
·We	ek 1 Trna						
	an di africativeza.				Team me	etings	
							•
		cial			Review		
VVe	ek 2 Activ	vities		Теа	am meetir	ias	ia e≉re ant
					a da n i tara dan k ada ka Batang tanggarang tarang ta Batang tarang		
	Finish. draft 1		Review .		v tech not punterpar		Exi
We	· ·	Free:	with		e tečhnica		• mtc anc
· We	ek 3. tech notes.		team		e technica e for exit		aı lea

OSART

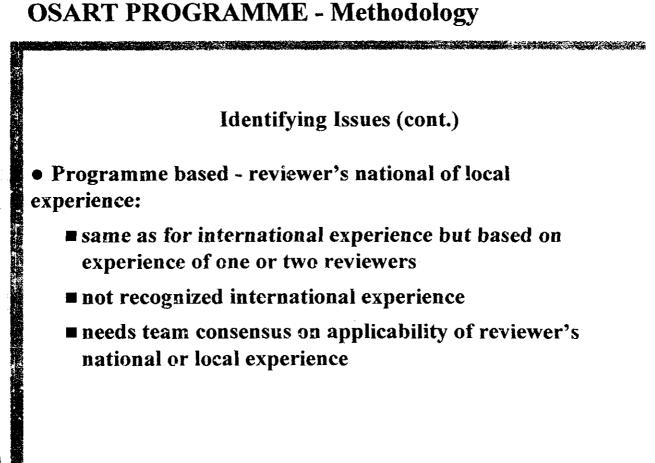
30

	Identifying Issues
The degree of	of acceptability of findings is as follows:
BEST	Performance based - problems at the plant
GOOD	Programme based - international experience
Acceptable	Programme based - reviewer's national or local experience





12.2.20



Definitions

Recommendation

A recommendation is advice on how improvements in operational safety can be made in the activity or programme that has been evaluated. It is based on proven, good international practices and addresses the root causes rather than the symptoms of the issue. It very often illustrates a proven method of striving for excellence which reaches beyond minimum requirements. Recommendations are specific, realistic and designed to result in tangible improvements.

12.2.22

Definitions (cont.)

Suggestion

A suggestion is either an additional proposal in conjunction with a recommendation or may stand on its own following a discussion of the pertinent background. It may indirectly contribute to improvements in operational safety, but is primarily intended to make good performance more effective, to indicate useful expansions to existing programmes or to point out possible superior alternatives to ongoing work. In general, it is designed to stimulate management and supporting staff to continue to consider ways and means for enhancing performance.

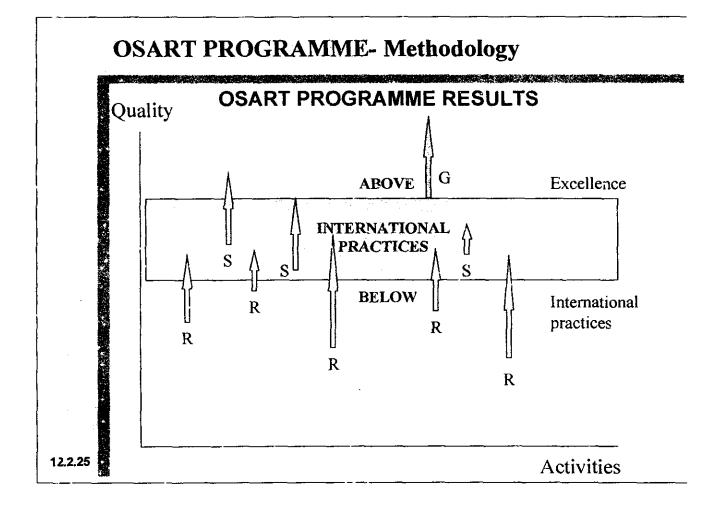
Definitions (cont.)

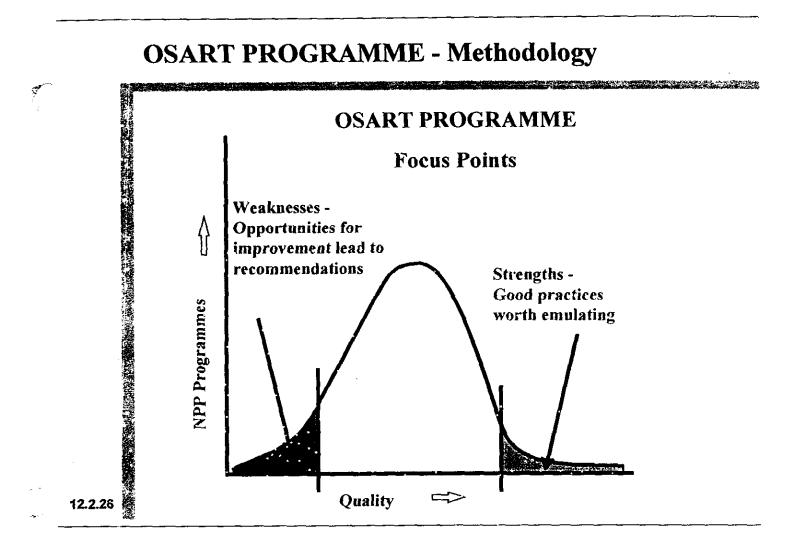
Good Practice

A good practice is a proven performance, activity or use of equipment, which the team considers to be markedly superior to that observed elsewhere. It should have broad application to other power plants and be worthy of their consideration in the general drive for excellence.

12.2.24

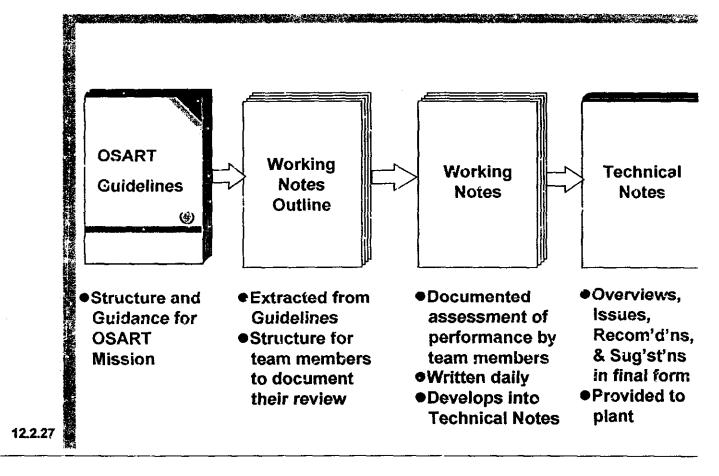
いた 一般の 一般の 一般の 一般の 一般の





OSART

OSART PROGRAMME - Reporting Results



Page 27

OSART ADVISORY SERVICE

EFFECTIVENESS Status of Issues at Follow-up Visits				
Yeas (Visits)	Resolved "To	SaturFactory Progress	Is withemat Program	
1984 190 (G	40	43	14	
991/92 (10)	43	38		
1993/4 (i1)	41	41		
199516 (4)	60	34		

12.2

•