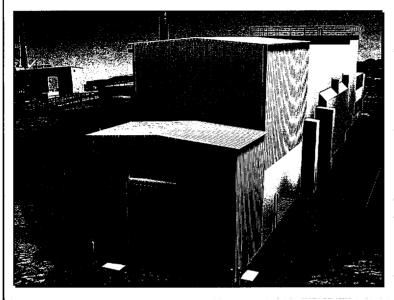


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## **Remote-Handled Waste Facility Preliminary Safety Analysis Report**

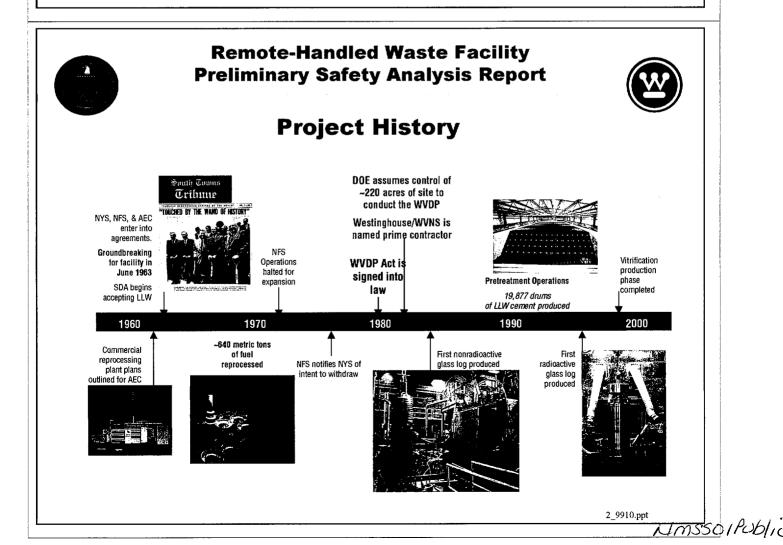


#### Status of the Remote-Handled Waste Facility at the West Valley Demonstration Project (WVDP)



**Tom Vero** Department of Energy RHWF Project Manager 716-942-2772 e-mail - verot@wv.doe.gov

David K. Ploetz Westinghouse West Valley Nuclear Services RHWF Project Manager 716-942-4276 e-mail - ploetzdk@wv.doe.gov



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#### Remote-Handled Waste Facility Preliminary Safety Analysis Report



# Remote-Handled Waste Facility (RHWF) Project Schedule

- Completed Conceptual Design June 1999
- Complete Civil Structural Design August 2000
- DOE Approves PSAR September 2000
- Begin Construction October 2000
- Complete Final Design May 2001
- DOE Approves FSAR April 2003
- Ready to Begin Operations October 2003

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#### Remote-Handled Waste Facility Preliminary Safety Analysis Report



PSARs ... serve as the principal safety basis for the DOE decision to authorize construction and preoperational testing.

[DOE Order 5480.23, 4f(8)(a)1]

# **Proposed PSAR Schedule**

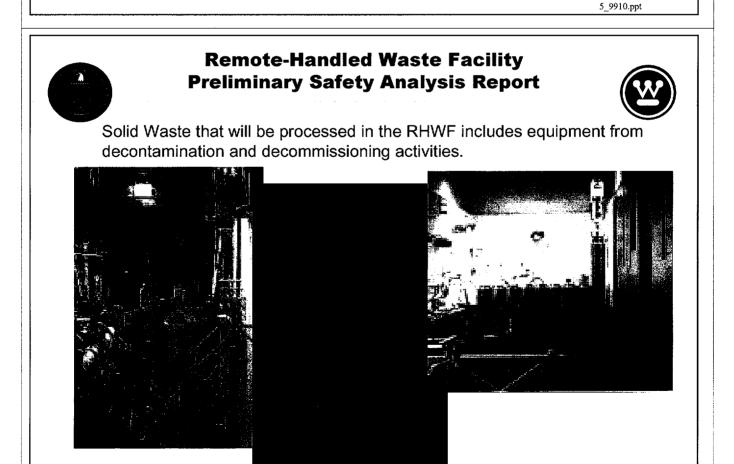
- DOE reviewed PSAR to NRC May 2000
- Receive NRC request for additional information- June 29, 2000
- Resolve NRC comments July 21, 2000
- DOE issues DOE Safety Analysis Report and approves PSAR -September 25, 2000

## Remote-Handled Waste Facility Preliminary Safety Analysis Report



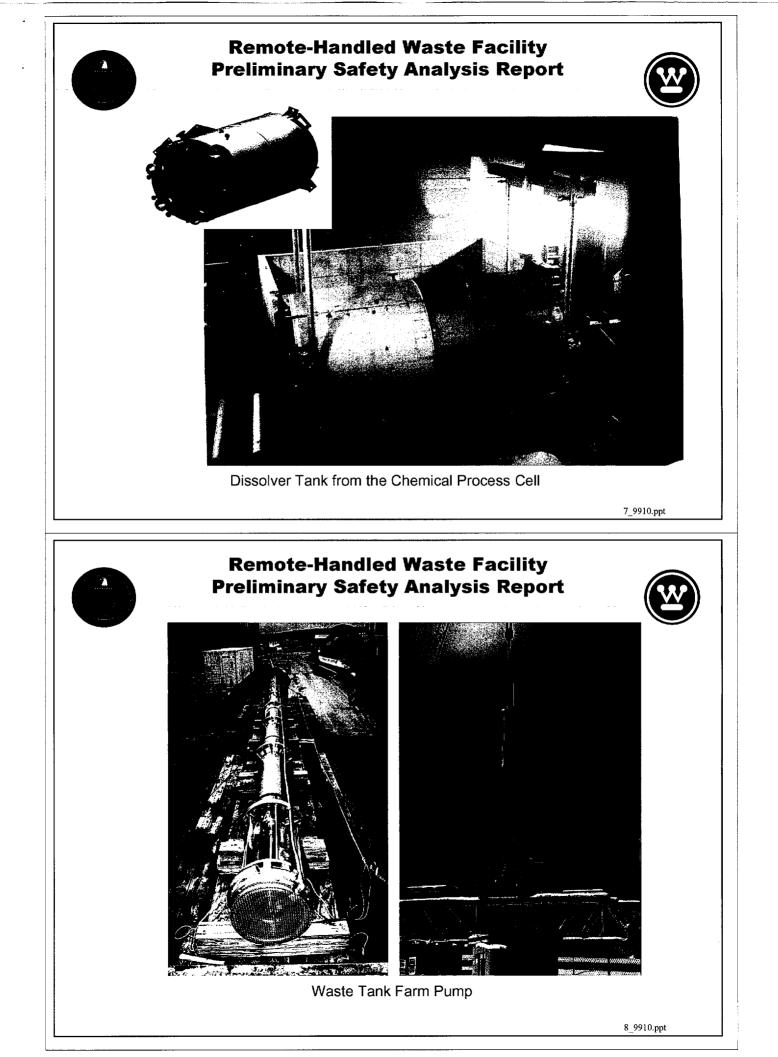
# **PSAR Facts**

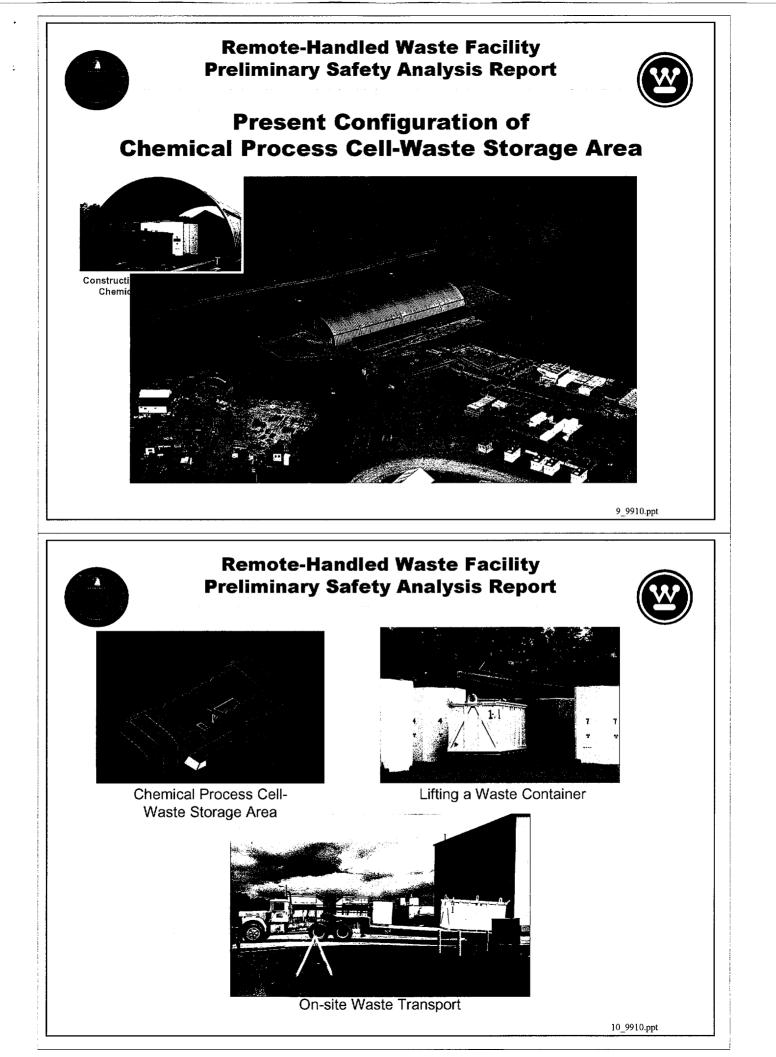
- The PSAR was prepared by experienced safety analysts familiar with the WVDP
- Multiple, in-depth reviews were performed prior to the PSAR being submitted to DOE
- Analyzed accidents are within the WVDP Evaluation Guidelines
- The analyses demonstrate that the RHWF poses a low risk
- There are no safety-class or safety-significant systems, structures, or components
- DOE approval releases WVNS for procurement, fabrication and construction. Separate approval of the FSAR is required prior to the start of operations.

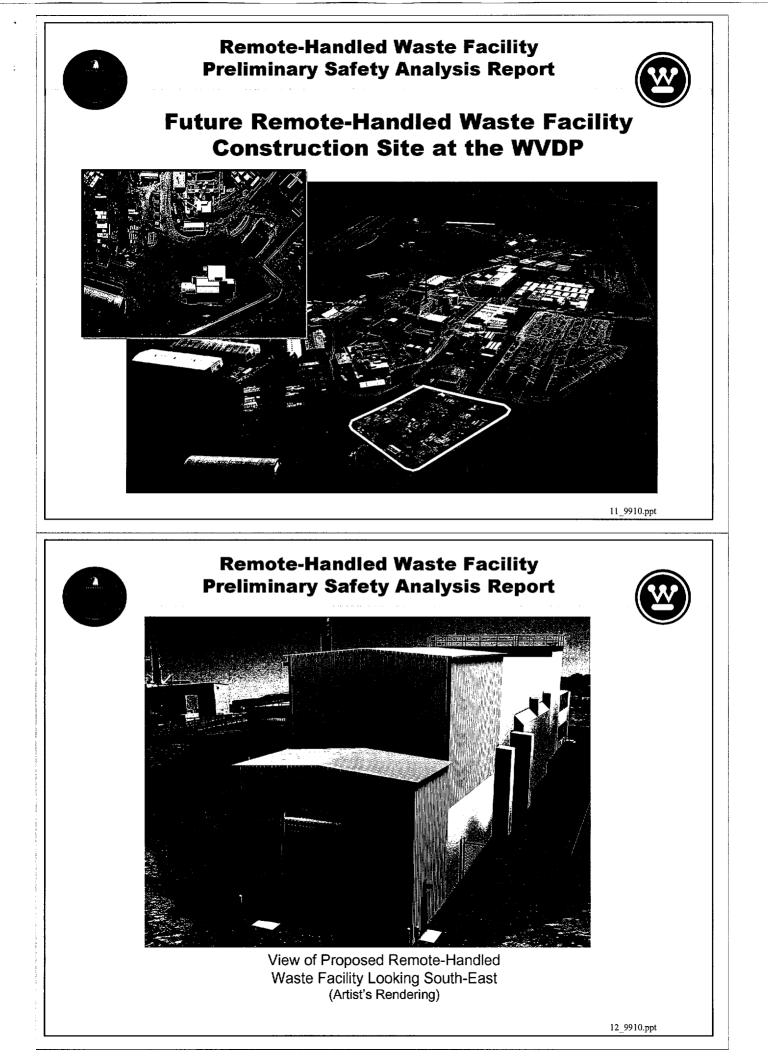


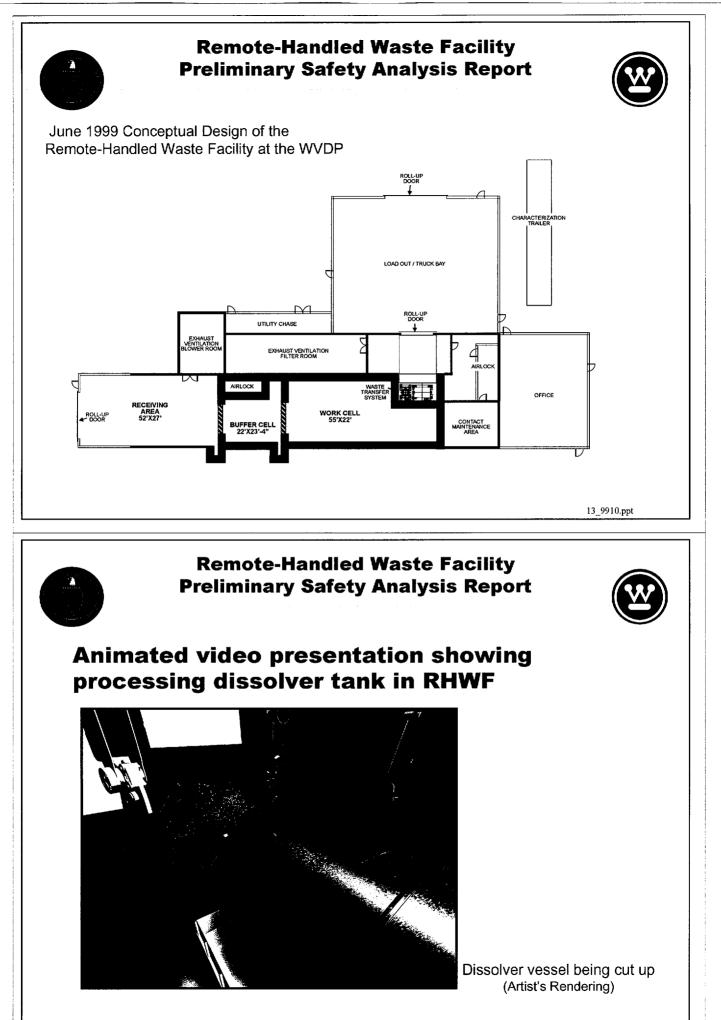
Chemical Process Cell (CPC) before and after decon and as it is presently configured for storing vitrified HLW.

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# Remote-Handled Waste Facility Preliminary Safety Analysis Report



# WVNS uses a modular approach to prepare SARs:

WVNS-SAR-001	WVNS-SAR-002	WVNS-SAR-003	WVNS-SAR-012	WVNS SAR-023
Project Overview and General Information	Low-Level Waste Processing and Support Activities	Vitrification Operations and HLW Interim Storage	Fuel Receiving and Storage Facility	Remote-Handled Waste Facility

# **Format and Content:**

 RHWF PSAR follows Reg Guide 3.26 format and the general guidance of 3.26 for contents.

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#### **Remote-Handled Waste Facility Preliminary Safety Analysis Report**



# **RHWF PSAR Process Hazards Analysis**

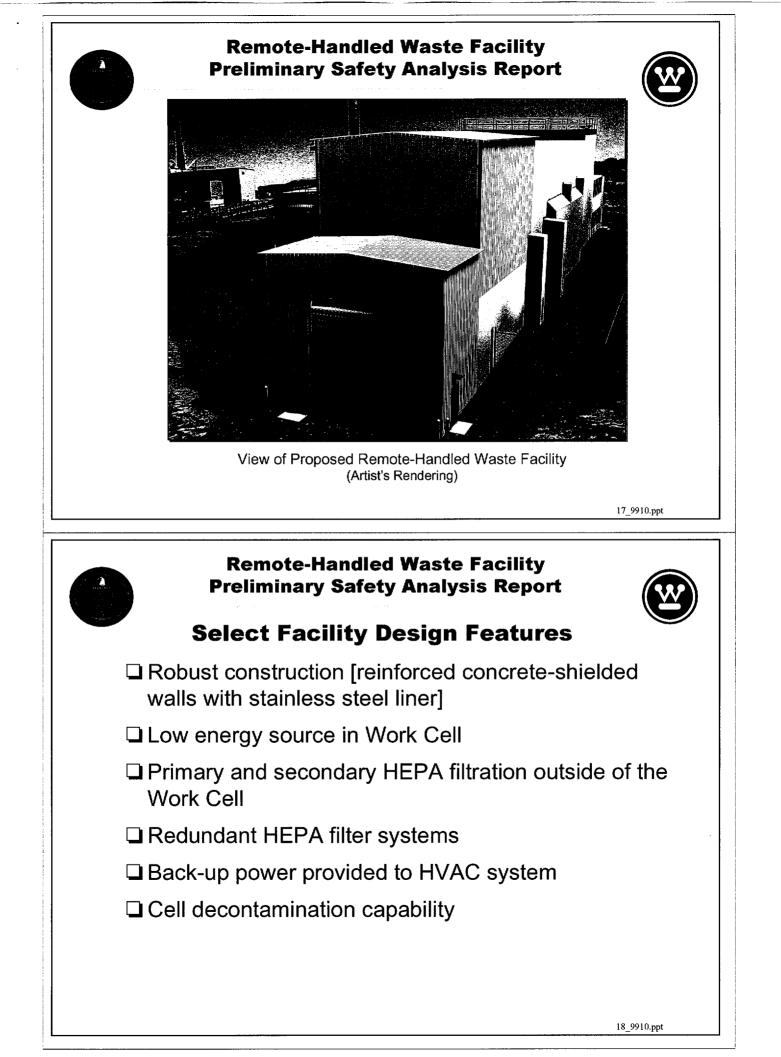
Process Hazards Analysis based on potential initiators, such as:

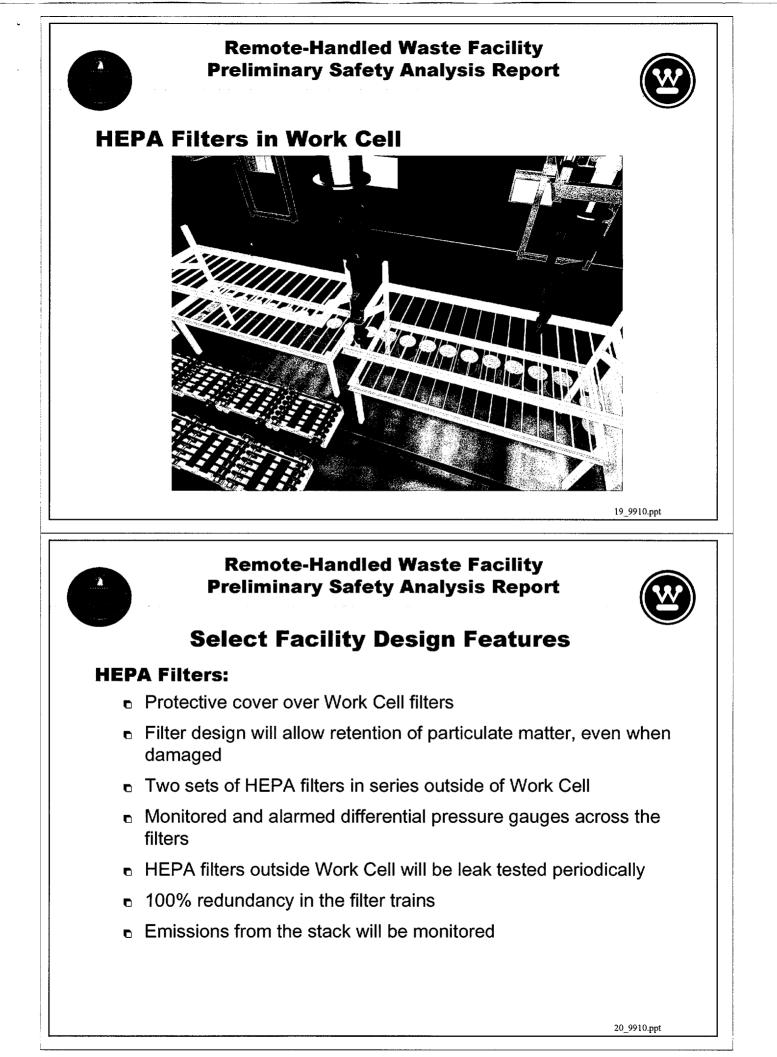
Container Rupture Seismic Event Fire Explosion (natural gas) Water Inundation Direct Radiation Exposure Inadvertent Criticality Airborne Dispersal Chemical Reaction HEPA Filter Failure Vehicle Accident Waste Container Breach

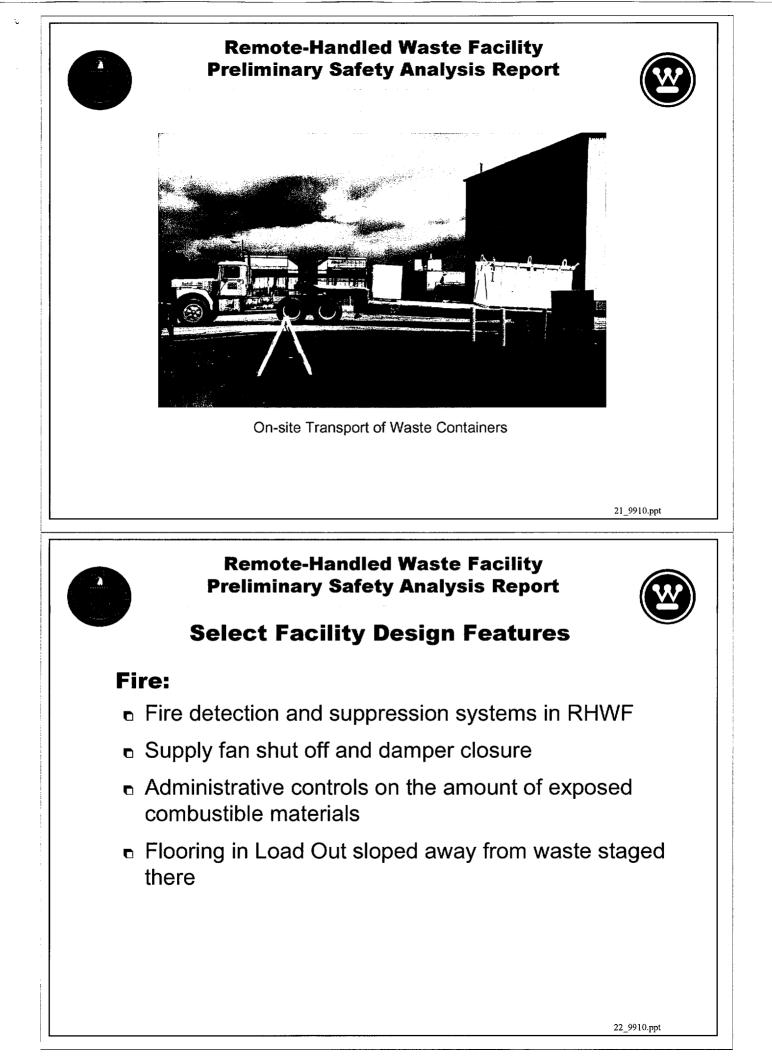
Risk factors prepared

• Representative, bounding accidents quantitatively analyzed.

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Remote-Handled Waste Facility Preliminary Safety Analysis Report				
DOE Approval of PSAR is on Path:				
<ul> <li>RHWF PSAR to NRC</li> <li>Proposed Date for</li> </ul>	May 18, 2000			
NRC Response DOE Approves PSAR	June 29, 2000 September 25, 2000			
<ul> <li>Start RHWF Construction</li> </ul>	October 2, 2000			

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