Westinghouse
Common Qualified Platform Topical Report and Software Program Manual March 2010 Update

WAAP-6945-NP, Rev. 1

WESTINGHOUSE NON-PROPRIETARY CLASS 3

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Westinghouse Participants

- Ron Calkins – Director, Protection Systems Engineering
- Bill Catullo – Fellow Engineer
- Kevin Finlay – Fellow Engineer
- John McInerney – Vice President, RRAS
- Warren Odess-Gillett – Fellow Engineer
- Christine Scardina-Gazzo – Project Manager
- Matt Shakun – Engineer
- Mark Stofko – Manager, Safety Systems Configuration Management

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Keys to Successful Interaction

NRC Executive Director for Operations (EDO) Bill Borchardt

- Keep communication
  - Open
  - Early
  - Frequent
- Define success early
- Have realistic expectations and schedules
- Ensure adequate resources
- Be open to modifying positions
  - Listen to understand
- Reach closure and move on

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

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Agenda

01:00 Introductions
Opening Remarks
Review Agenda
Objectives

[The remainder of the meeting includes the presentation of Westinghouse proprietary information.]

01:20 Component Interface Module (CIM)
01:45 Generic Change Process
03:15 Break
03:25 Alternate Flat Panel Display System O/S

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Agenda (cont.)

04:15 Document Schedule

04:45 Summary
Next Meeting

05:00 Closing Remarks
Adjourn

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Objectives

- Discuss Component Interface Module licensing approach
- Refine Generic Change Process screening/evaluation criteria
- Present an alternative O/S for the Flat Panel Display System
- Identify schedule for documentation review

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Component Interface Module (CIM)

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CIM Background

- August 11, 2000; the Staff issued a Safety Evaluation (SE) regarding:
  - Topical Report CENPD-396-P, Rev. 01, Common Qualified Platform
  - Appendices 1, 2, 3 & 4, Rev. 01
  - CE-CES-195, Rev. 01, Software Program Manual for Common Q Systems

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CIM Background (cont.)

- The Common Q SE identified 10 Generic Open Items
  - Closed via two rounds of subsequent submittals and SEs 6/01, 2/03
  - GOI 7.8 remains open - "Loop Controllers"

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CIM Design

- Component Interface Module function
  - Provides discrete component output commands for valves, pumps, etc.
  - Based upon command inputs
  - Provides component status feedback

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CIM Design (cont.)

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CIM Licensing

- Currently being reviewed by NRO as part of AP1000 Protection System
- STP 3,4 plant specific application to be submitted for NRO review
- WEC will not seek generic approval of the CIM
  - No application in US operating reactors anticipated
  - GOI 7.8 will remain open

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Common Q Platform Generic Change Process

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Goal

- Allow changes to be made to an approved platform that have minimal safety impact to be made without submittal to NRC for review

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Background

- During the last meeting (October 19, 2009), NRC requested more detail on the proposed change process regarding the Screening and Evaluation Criteria.
- In response, criteria have been developed to guide the decision making process when changes to the Common Q Approved Topical Report (ATR) are evaluated.
- The criteria will then become part of either a procedure, plan, or program manual that governs the Westinghouse safety system design process.

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Objective/Next Steps

- Present the proposed Screening and Evaluation Criteria.
- Westinghouse will adjust the level of detail and complete the change process.
- The change process will then be docketed for approval as part of the Generic Common Q Platform Topical Report effort.

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Proposed Change Process Overview

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Top Level Change Process Flow Chart

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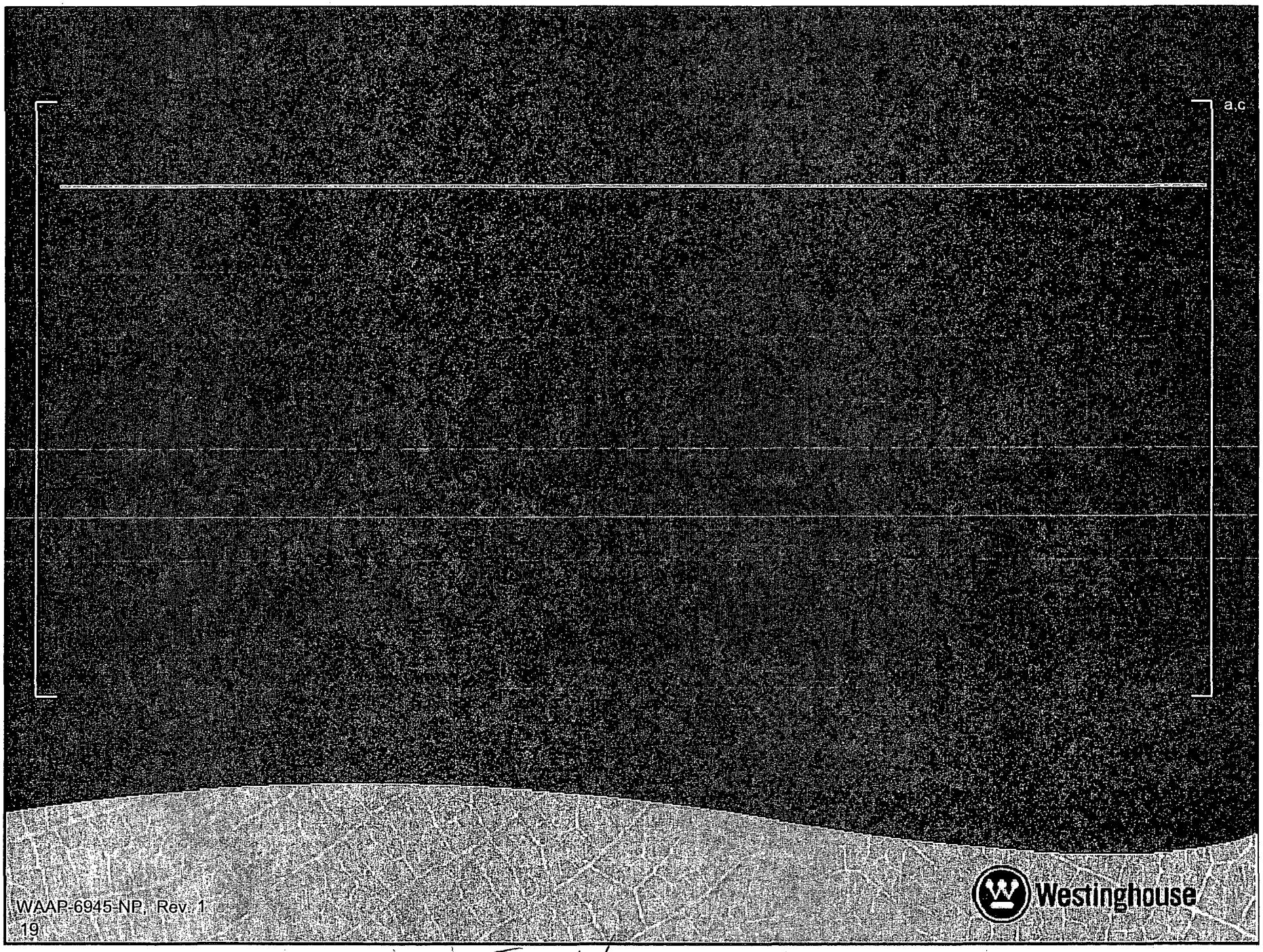

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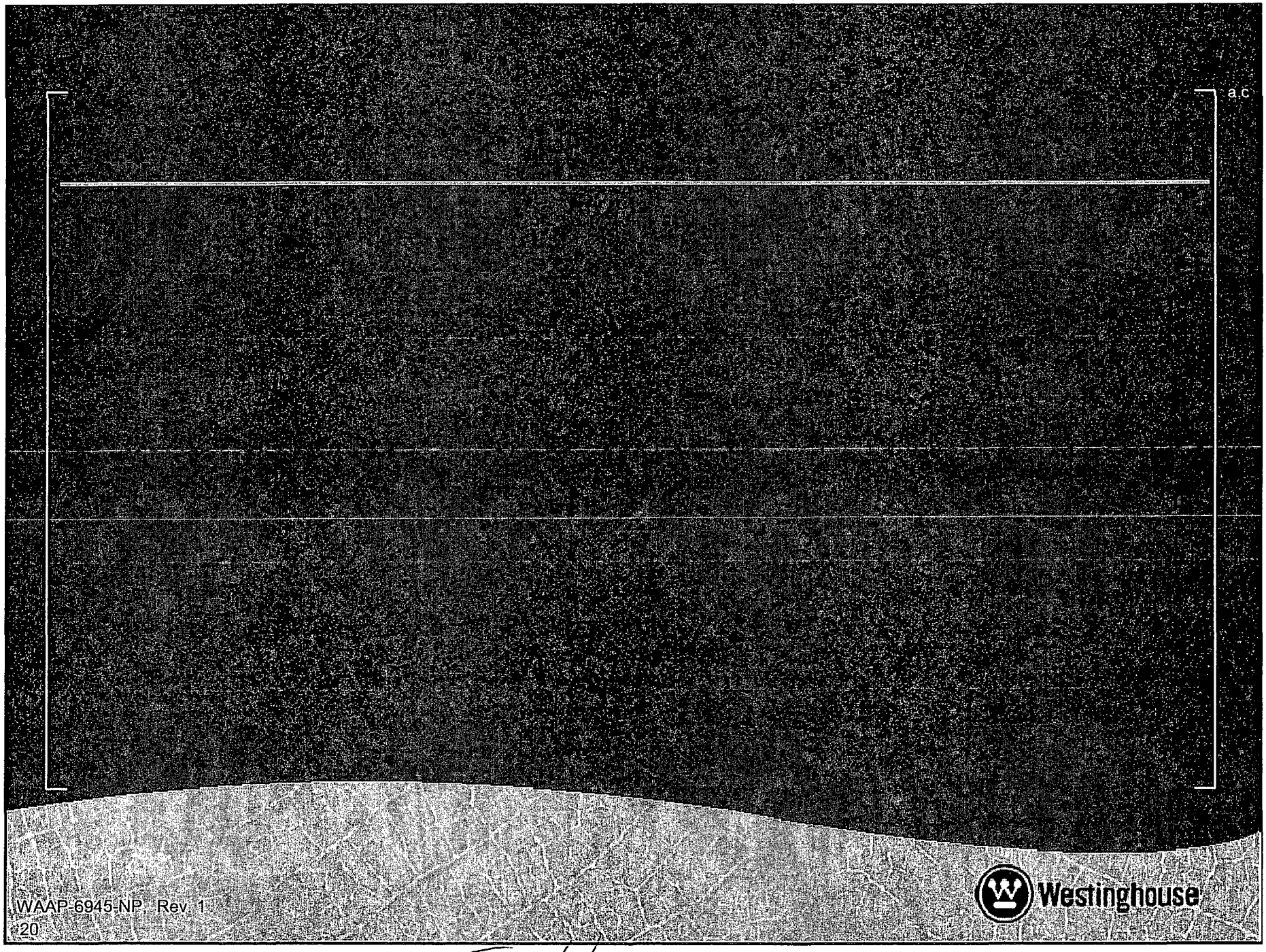

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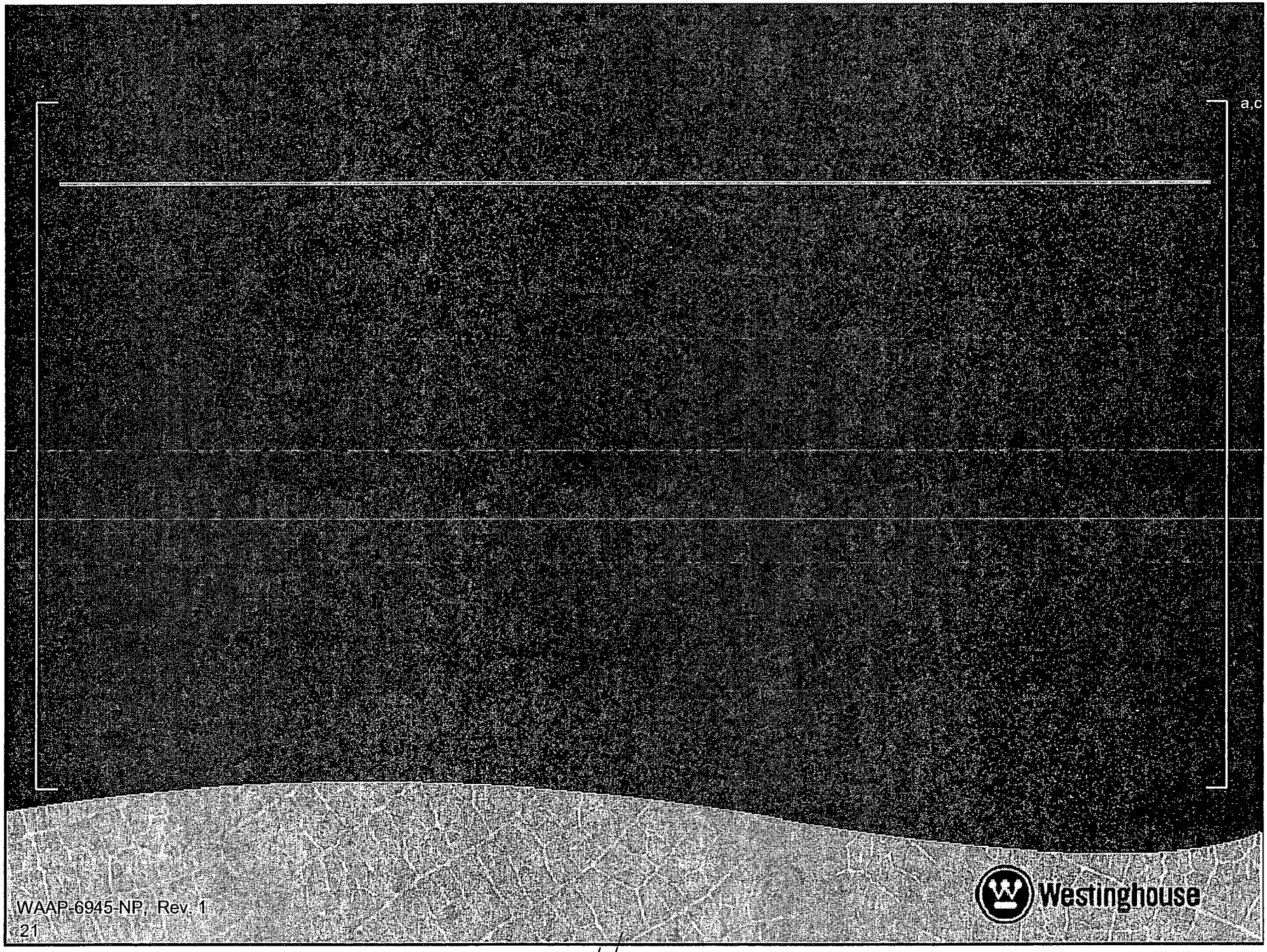

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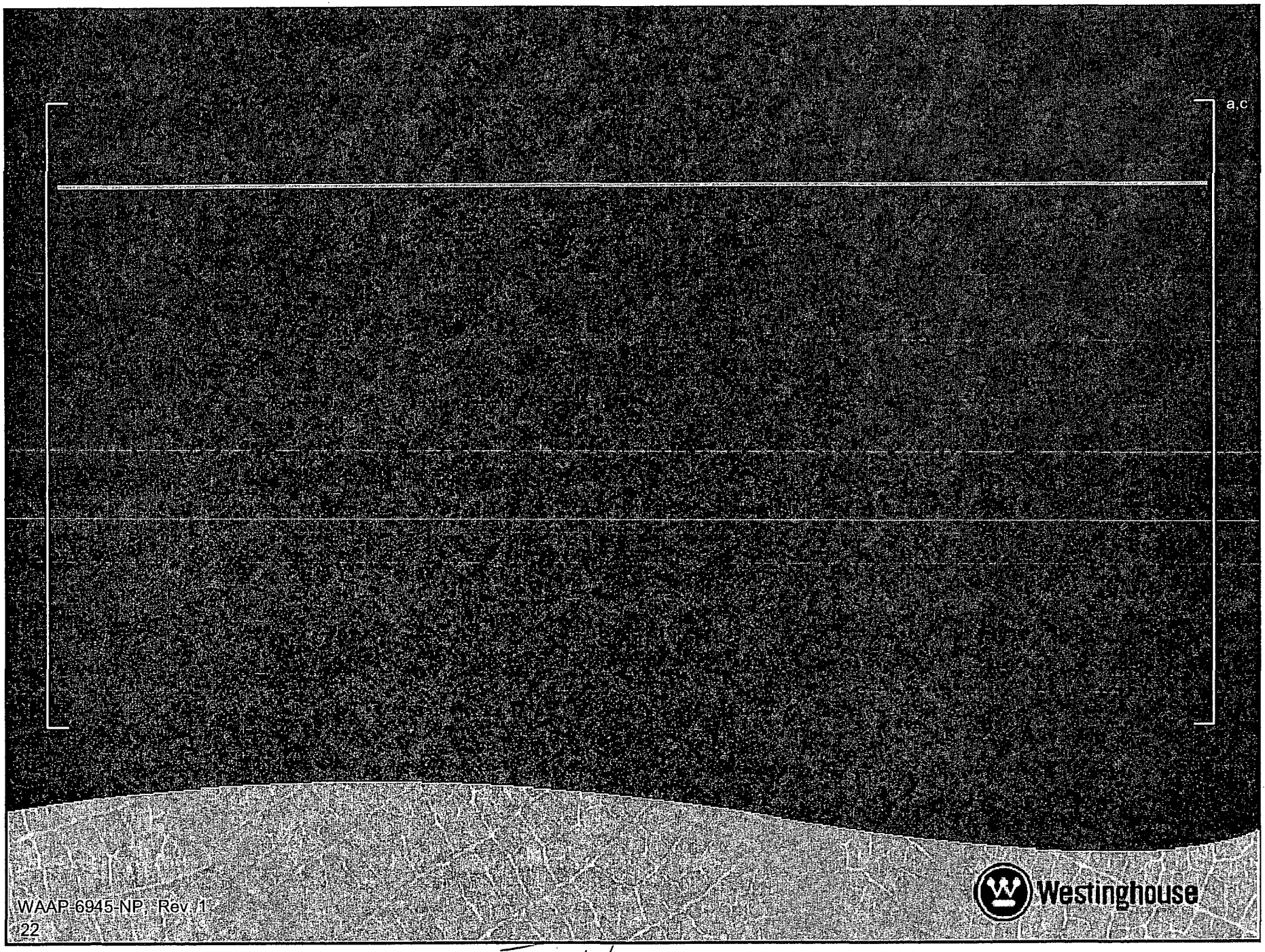

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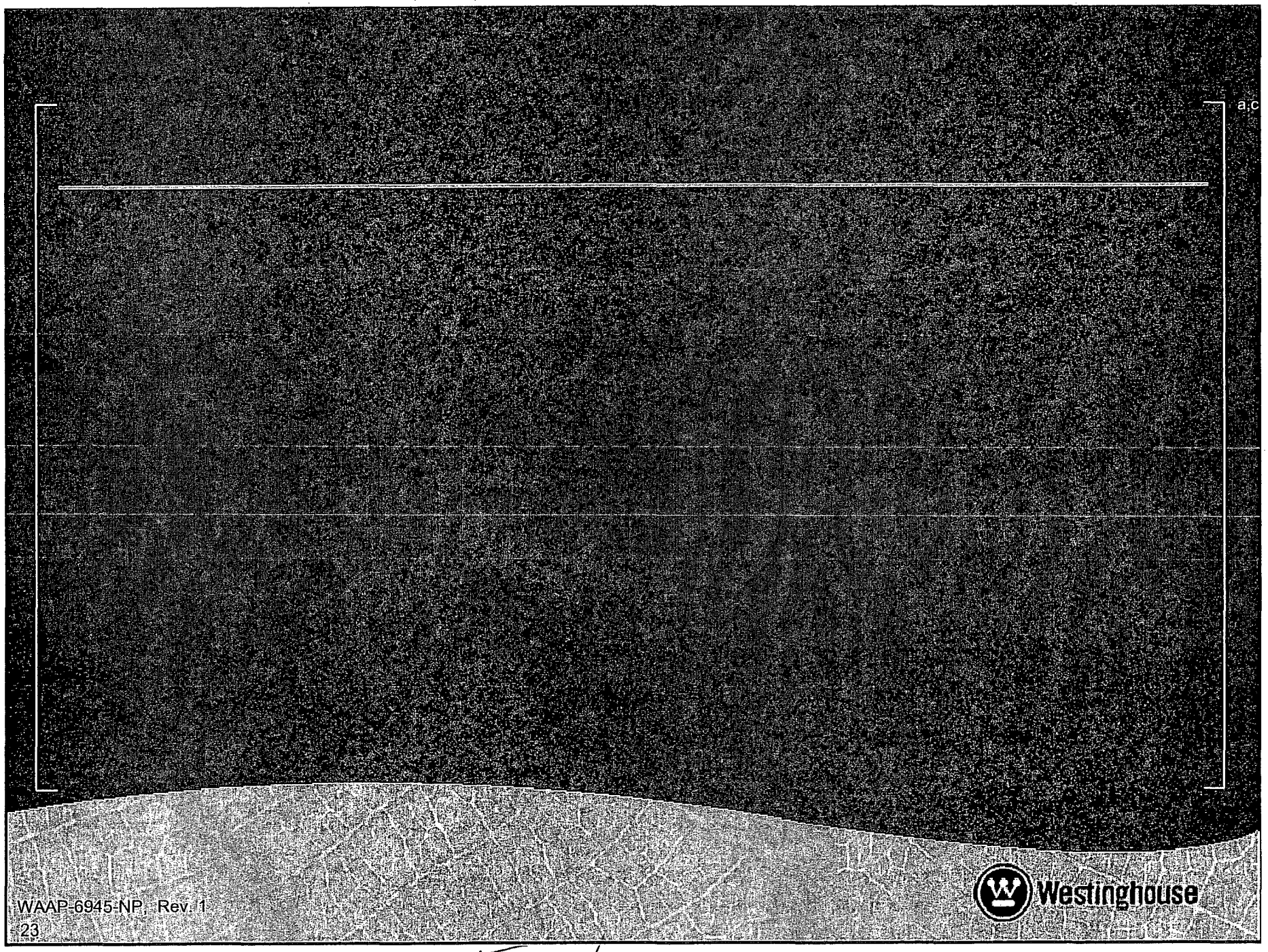

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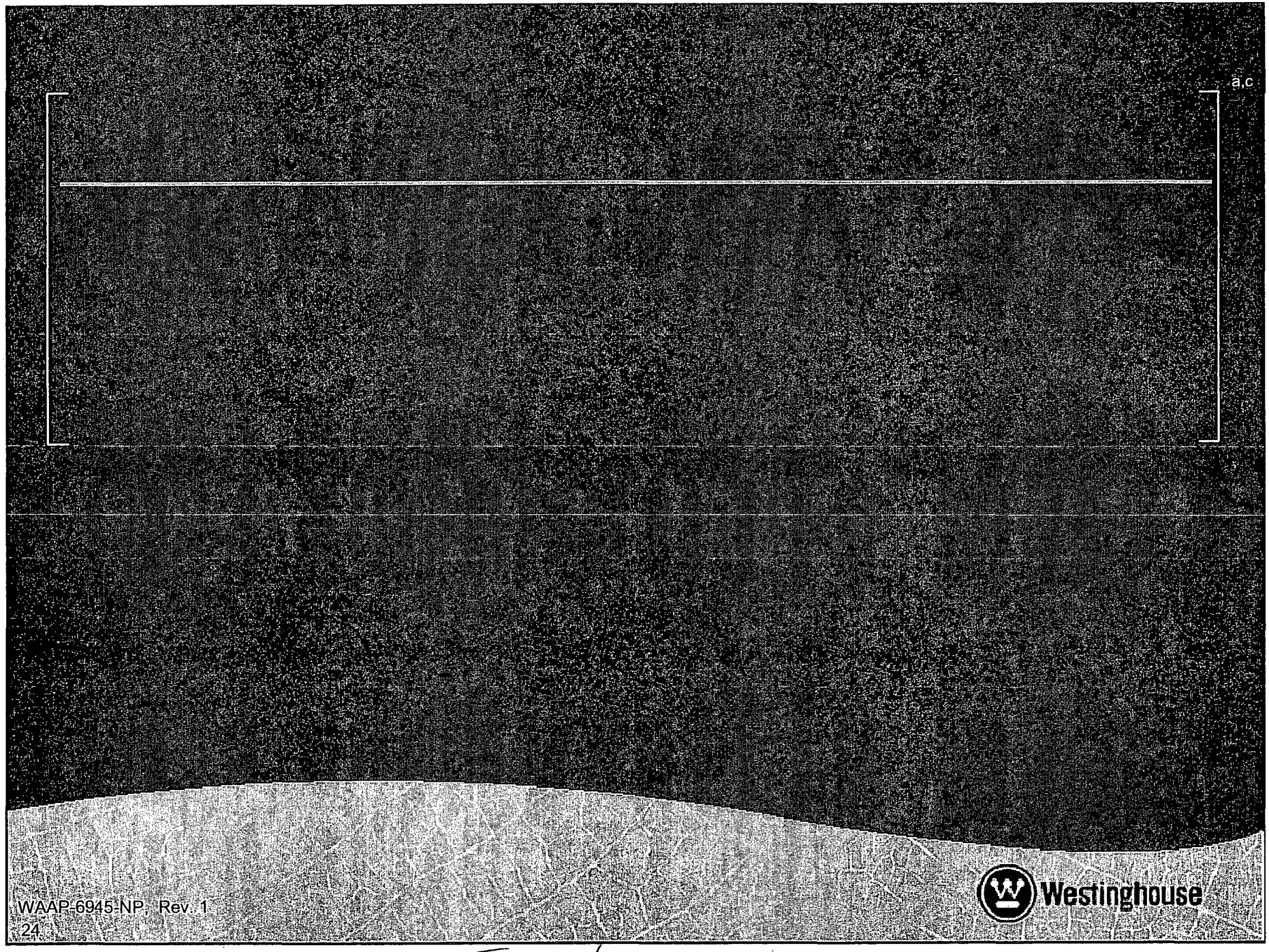

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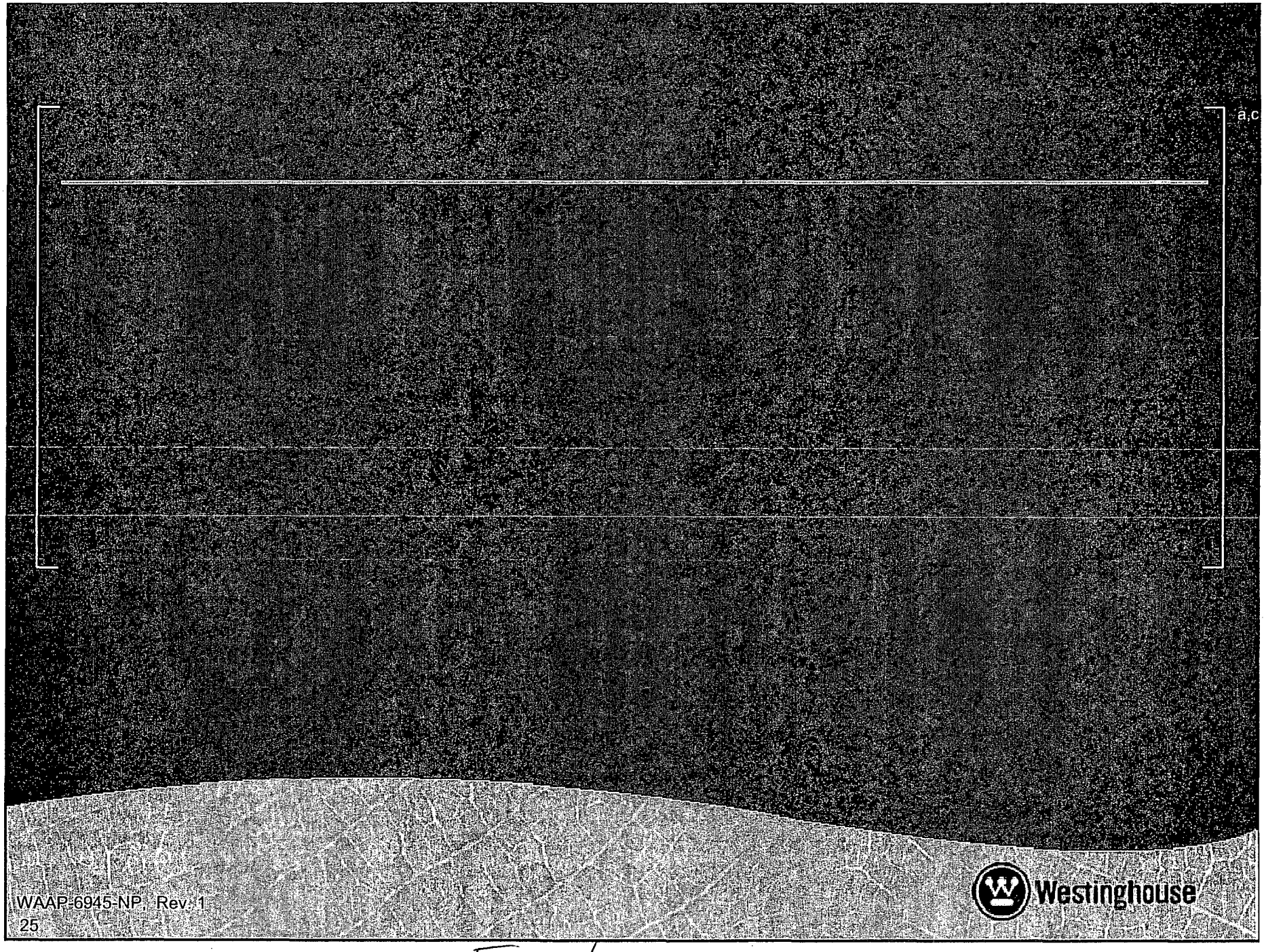

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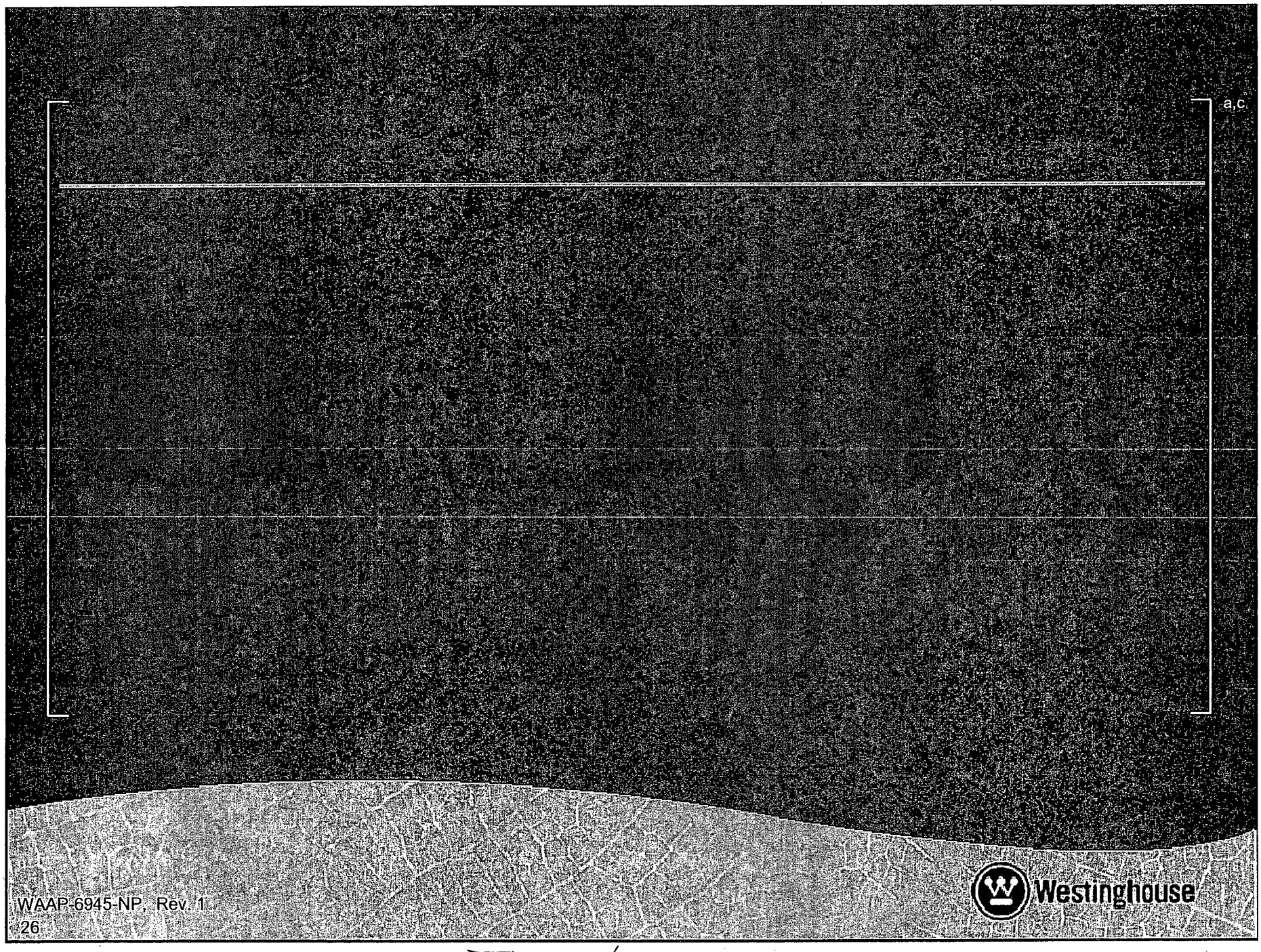

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- Yes/Uncertain → Submit change to NRC for approval

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Ex. 4

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Ex. 4

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- Yes/Uncertain → Submit change to NRC for approval

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Safety Culture/Process Improvement

- When integrated into the day-to-day work processes, the impact of changes on the licensing aspects/impacts on an approved platform will be better understood up front (early in the design process) rather than later in the design process when preparing an LAR, an amendment to the ATR, or responding to RAIs

Benefits

- Allows NRC to focus only on significant changes
- Positive step forward at simplifying approval process that will help to gain licensee confidence in the digital upgrade process
- Reduces the amount of change documentation submitted as part of an LAR or amendment to ATR
- Lessens the strain on NRC resources
- Should speed up the approval process

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Alternate Flat Panel Display System O/S

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Alternate FPDS Software

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Alternate FPDS Software

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Alternate FPDS Software

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Alternate FPDS Software

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Ex. 4

Document Schedule

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Document Schedules

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Ex. 4

Document Schedule (cont.)

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Document Schedule (cont.)

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Ex. 41

Document Schedule (cont.)

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Summary

- Identified change in CIM licensing approach
- Provided more details regarding the generic change process
- Presented an alternative O/S for the Flat Panel Display System
- Identified Schedule for Submittals
- Next Meeting
  - Walk through TR and SPM changes – May 2010

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