



New Facilities at Hematite Plant 1989

PROGRESS REVIEW  
FOR  
NUCLEAR REGULATORY COMMISSION  
BY  
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5/24/89

2-17

R3/A3-11

MMS-4/1/89

# REVITALIZATION PLAN FEATURES

## HEMATITE

- \*INCREASED CONVERSION CAPACITY
- \*46,000 SQUARE FEET NEW FLOOR SPACE
- \*TWO NEW PELLET LINES
  - NEW PRESSES, FURNACES, GRINDERS
  - EXISTING LINE
  - SIX ENRICHMENT BLENDERS
  - DRY POWDER PREPARATION
- \*ADDED STORAGE, SHIPPING, & OFFICE SPACE

## WINDSOR

- \*SEMI-AUTOMATED ROD FABRICATION
  - ENDS MANHANDLING
  - INFORMATION AUTOMATION
  - MULTI-ENRICHMENT
  - PROCESS CONTROL ON WELDERS
  - PELLET STORAGE/RETRIEVAL AUTOMATION
- \*NEW FUEL ROD SCANNER
  - THIRD GENERATION
  - ERBIA RETROFIT CAPABILITY
- \*ADDED OFFICE SPACE
- \*COMPONENTS & ASSEMBLY SHOP UPGRADE

# MAY 24 NRC MEETING

## HEMATITE CONSTRUCTION & SCHEDULE UPDATE

### CONSTRUCTION PROGRESS (SEE ATTACHED DRAWING)

-WAREHOUSE (IN USE)

-PELLET BUILDING

BUILDING COMPLETED - APRIL 14, 1989

SUBFLOOR UTILITIES COMPLETED - MAY 5, 1989

ELECTRICAL UNDERWAY

BEGIN EQUIPMENT INSTALLATION - JUNE 1, 1989

-STORAGE/UTILITY BUILDING

WORK DELAYED DUE TO STRIKE

FOOTINGS 90% COMPLETE

ROOF UP - JUNE 12, 1989

SOIL INSPECTION - JUNE 26 (EARLY) - JULY 10 (LATE)

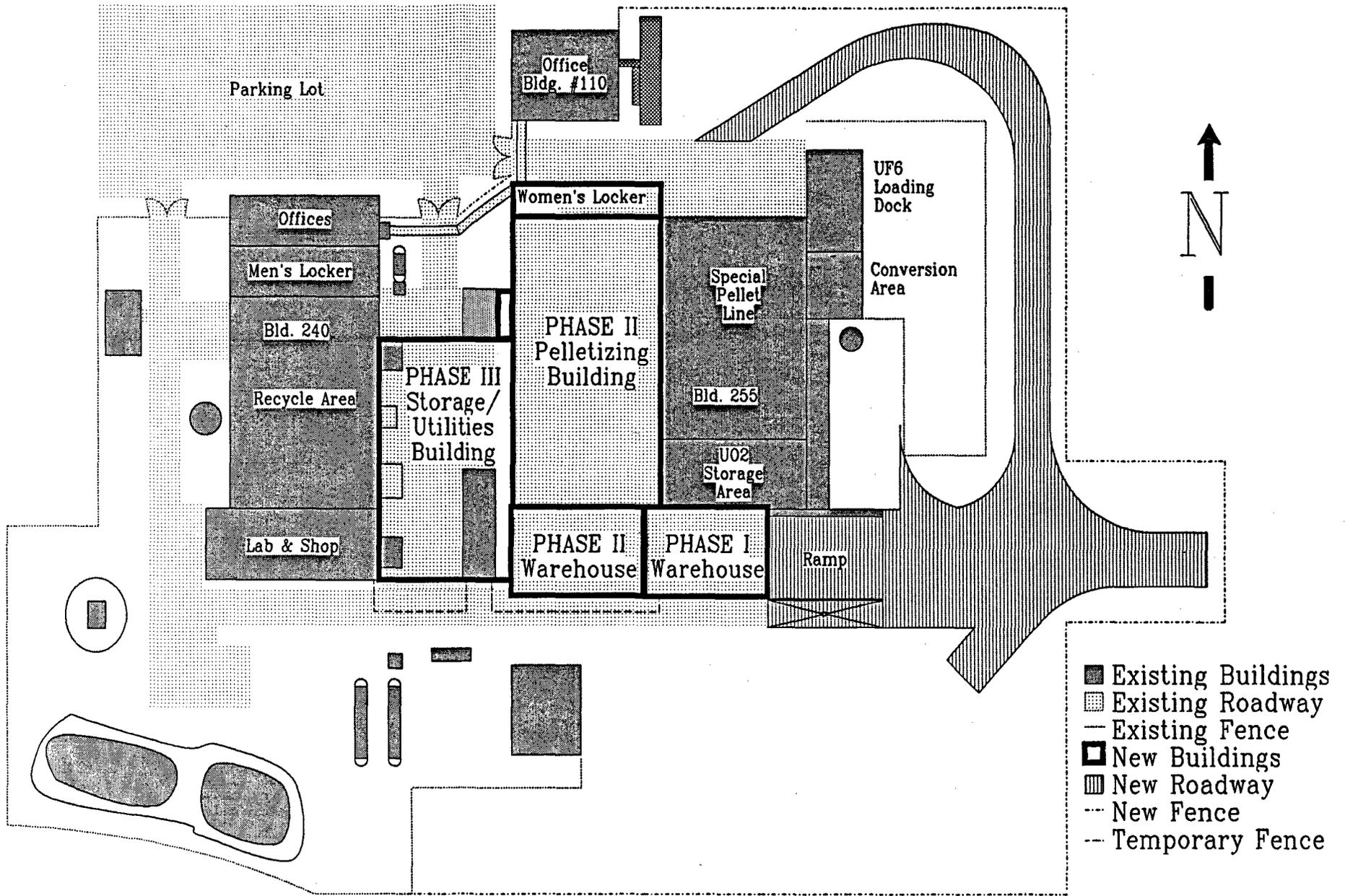
NRC RELEASE - AUGUST 1, 1989 (ESTIMATED)

-WOMEN'S LOCKER ROOM

DESIGN WORK COMPLETED

CONSTRUCTION COMPLETE - AUGUST 1, 1989 (ESTIMATED)

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# Hematite Facility

DRR 4/24/89

# MAY 24 NRC MEETING

## HEMATITE CONSTRUCTION & SCHEDULE UPDATE

### LINE 1 SCHEDULE PROGRESS (SEE ATTACHED SCHEDULE)

- EQUIPMENT INSTALLED & BEGIN DEPLETED TESTING BY JUNE 30, 1989.
- LINE 1 SCHEDULED FOR SEPTEMBER 1, 1989, PRODUCTION PLAN IS TO KEEP SCHEDULE. QUALIFICATION IS CRITICAL ACTIVITY.

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Hematite Pellet Production  
Line 1 - Startup Schedule  
5/24/89

1989

March	April	May	June	July	August	Sept.	October
6 13 20 27	3 10 17 24	1 8 15 22 29	5 12 19 26	3 10 17 24 31	7 14 21 28	4 11 18 25	2 9 16 23 30

PELLET BUILDING

Place Roof

Pour Floor

EQUIPMENT

Install Utilities

Bulk Oxide Hoppers

Large Blenders

Slug & Granulate System

Production Press

Dewaxing Furnace

Sintering Furnace

Grind to Ship

HVAC and Dust Control

START UP AND TESTING

Functional Tests

Qualifications

Production

**Legend**

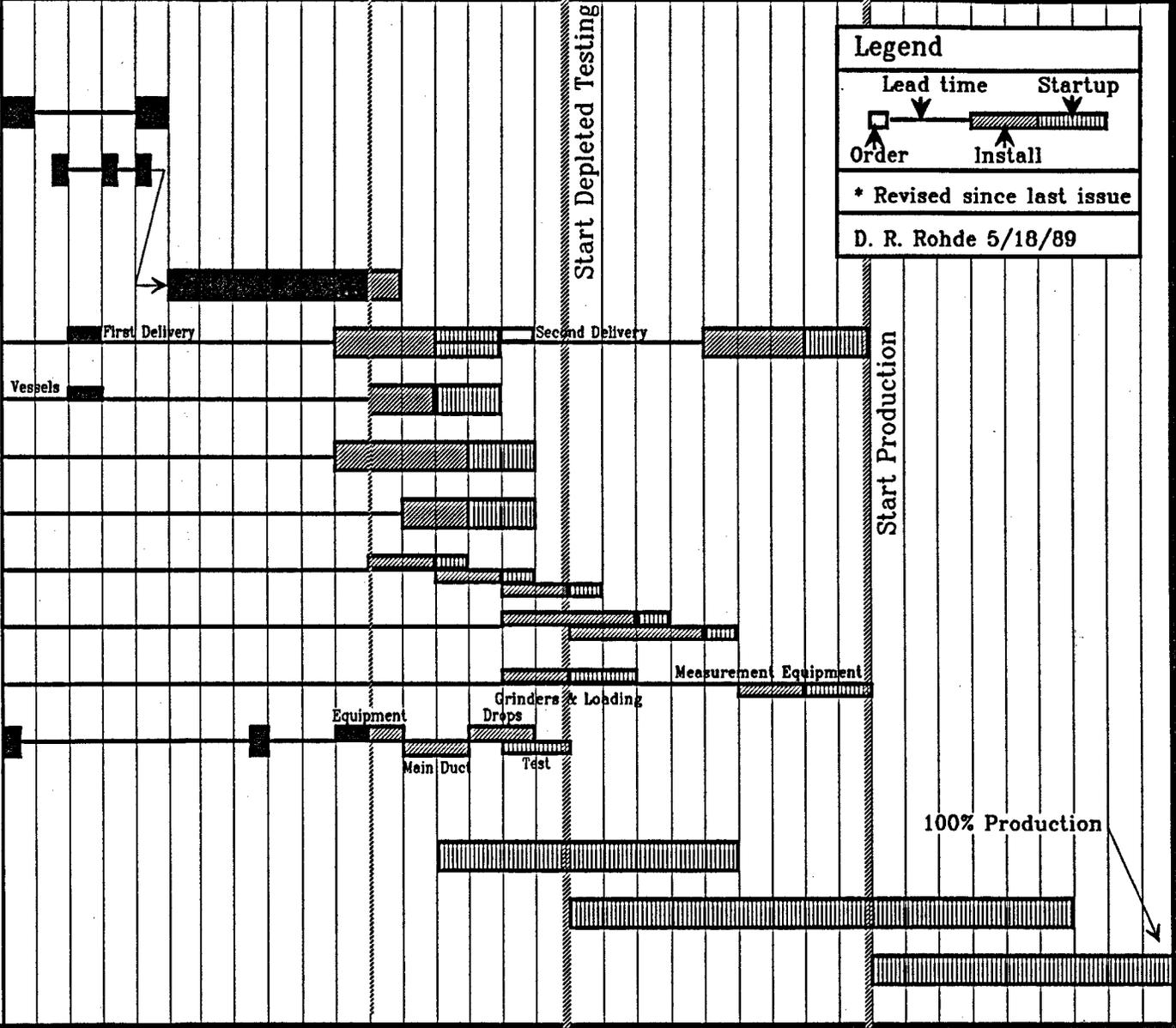
Lead time      Startup

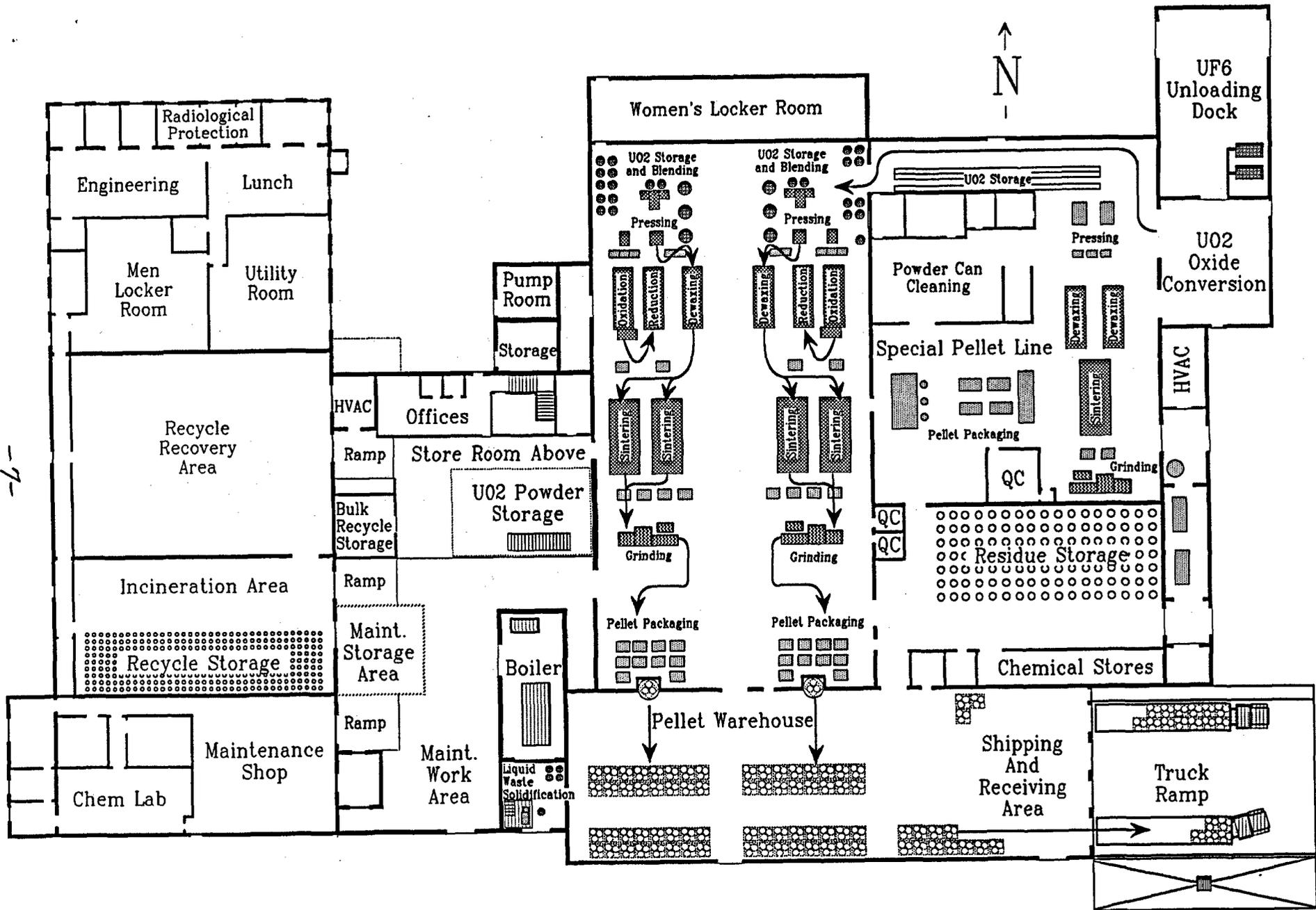
Order      Install

\* Revised since last issue

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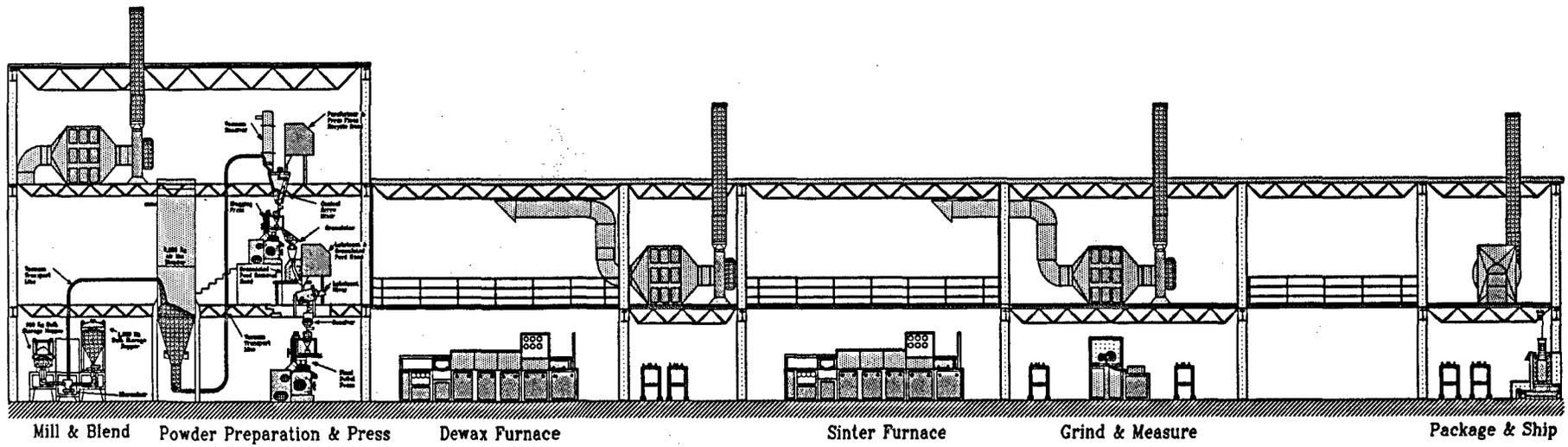




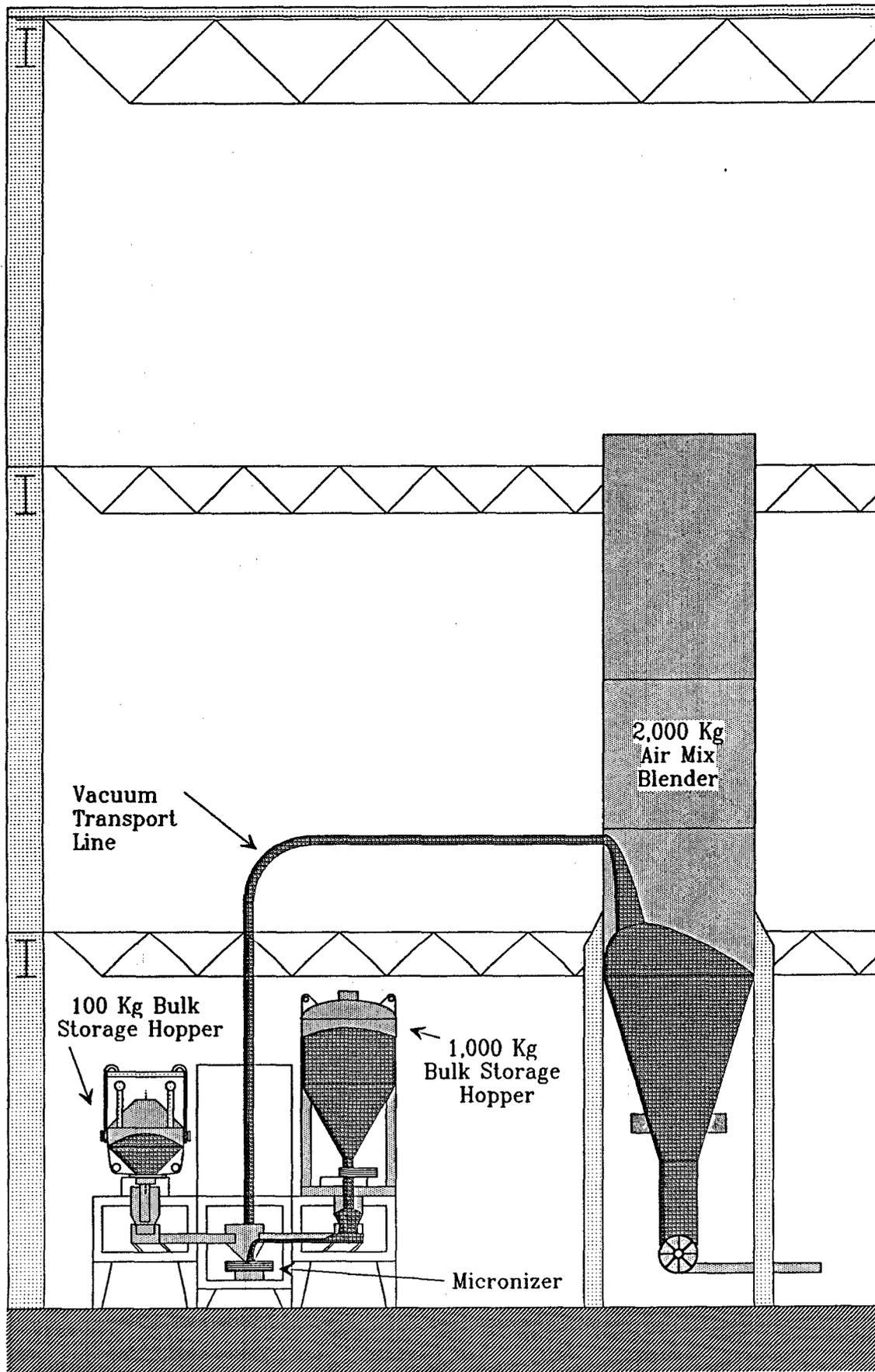
Hematite Equipment Layout

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2/2/89

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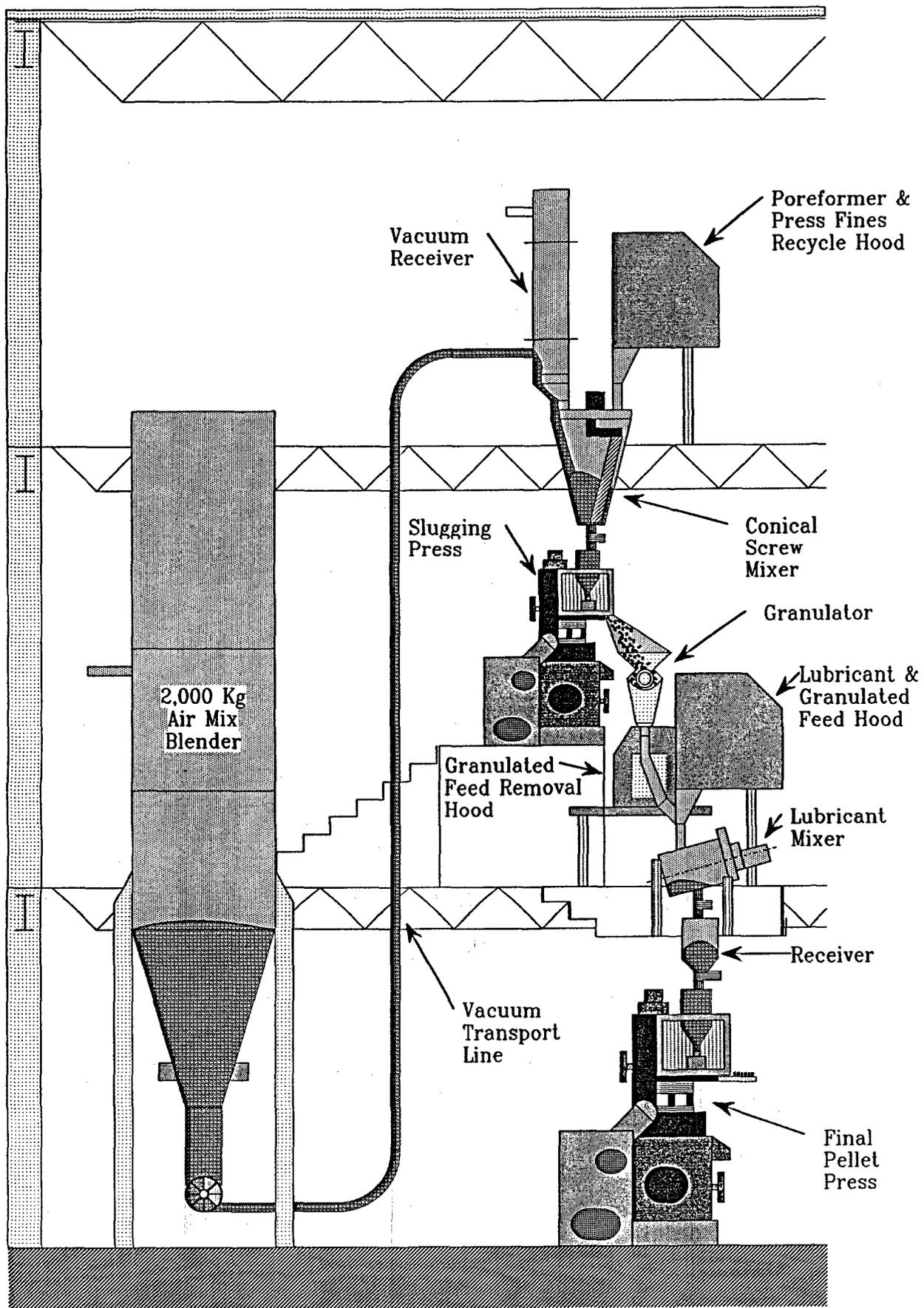


Nuclear Fuel's New Hematite Pellet Production Facility



Hematite Micronizing & Blending

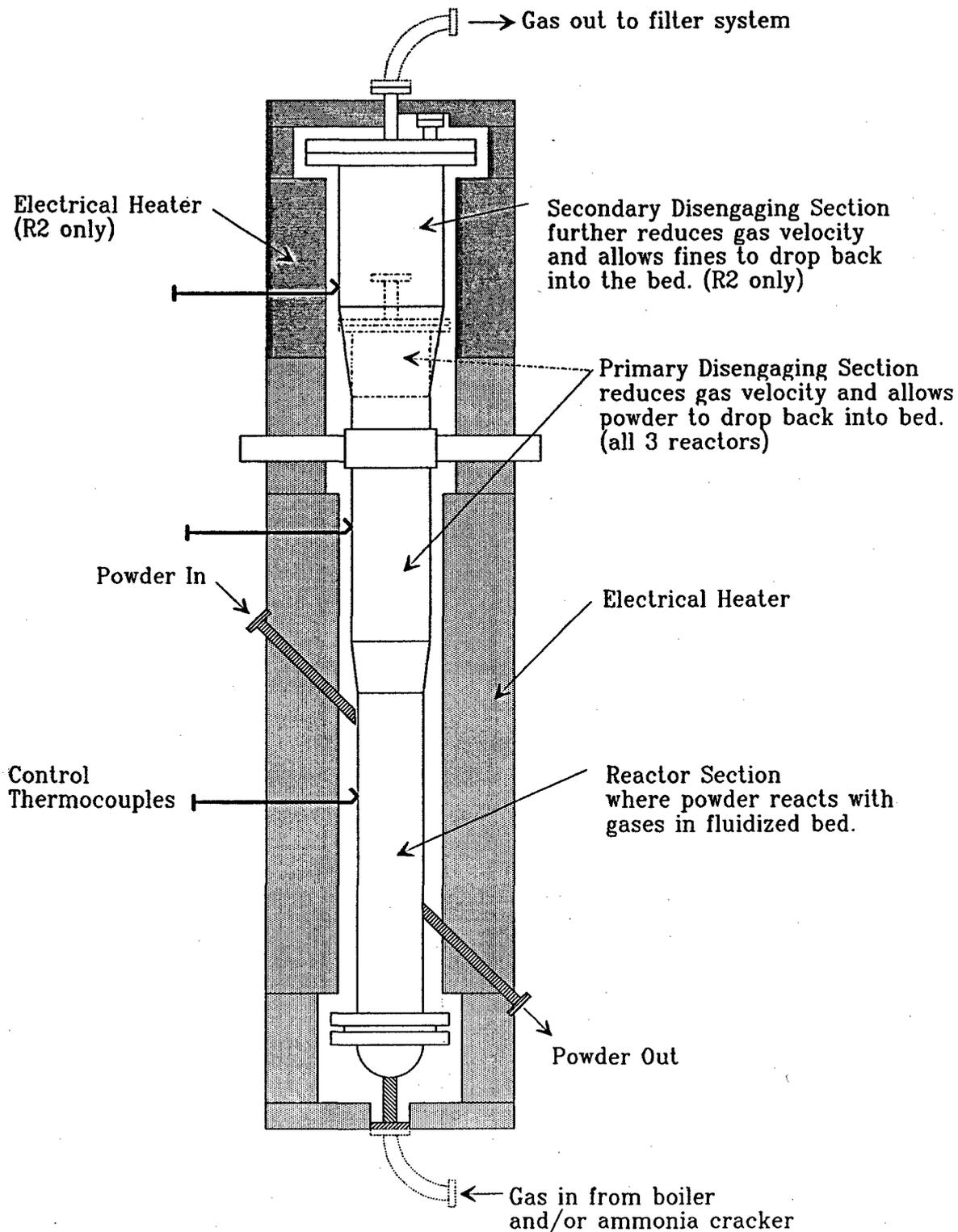
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2/13/89



Hematite Press Feed Preparation

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2/13/89

Figure II.9-3



## Basic Reactor & Furnace Schematic

License No. SNM-33, Docket 70-36

Revision: 0  
(new figure)

Date: 1/19/89  
Page: II.9-4a

# HEMATITE LICENSE ACTIVITIES

<u>LICENSE AMENDMENT APPLICATION</u>	<u>SUBMIT TO NRC</u>	<u>APPROVED BY NRC</u>	<u>COMMENTS</u>
CONSTRUCTION	09/30/88	10/14/88	
-RELEASE PELLET BLDG SLAB	12/12/88	02/24/89	
-19- -RELEASE UTILITY BLDG SLAB	(07/10/89)	(08/21/89)	TO POUR FLOOR SLAB RELEASE
CONVERSION CHANGE	02/10/89	(06/01/89)	NEEDS NRC ACTION ASAP
ENVIRONMENTAL	03/23/89	(06/15/89)	NRC ACTION NEEDED
DEPLETED STARTUP	03/07/89	(06/15/89)	NRC ACTION NEEDED
PRODUCTION STARTUP	(05/01/89)	(09-01-89)	
LICENSE RENEWAL	(11/89)	(OPEN)	DEFERRED FROM 11/88

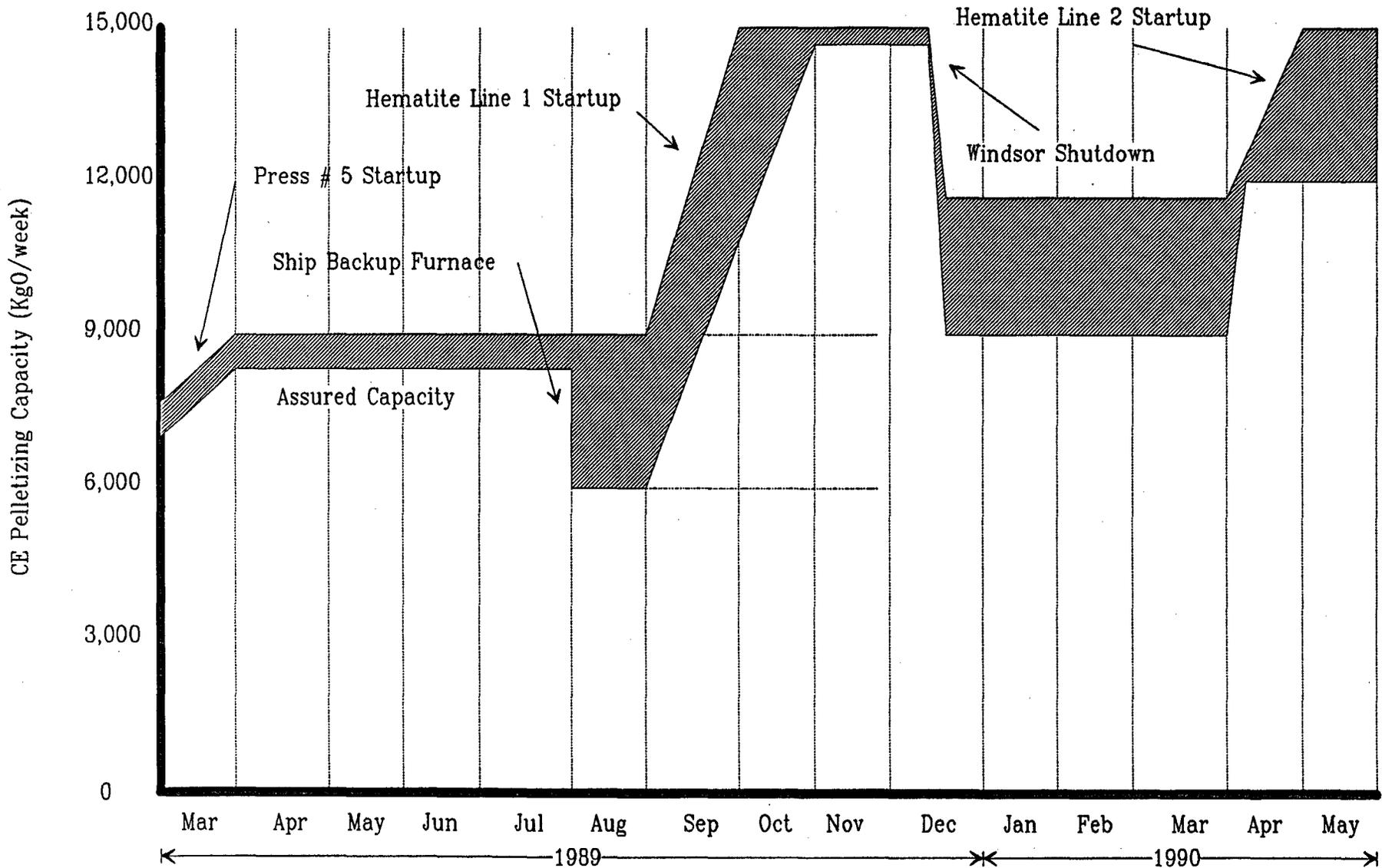
# CE/NRC CRITICAL ISSUE

AUGUST 1 DECISION TO SHIP BACKUP SINTERING FURNACE FROM WINDSOR TO HEMATITE DEPENDS ON:

- 1) ALL NEW EQUIPMENT ON HAND FOR LINE 1
- 2) NEW PRESS PROCESS DONE & DEMONSTRATED
- 3) PROBABLE APPROVAL OF PRODUCTION LICENSE BY  
SEPTEMBER 1, 1989

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New Pellet Production Transition Plan  
Case 2. - Ship Furnace 8-1-89, Shutdown Windsor 12-15-89

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