

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT NUCLEAR STATION
UNIT II OPERATIONS

07-192-91

02-NLO-006-341-2-00 Revision 0

TITLE: OPERATING PROCEDURES/PROCEDURE CHANGES

	<u>SIGNATURE</u>	<u>DATE</u>
PREPARER	<u>[Signature]</u>	<u>12-17-90</u>
TRAINING AREA SUPERVISOR	<u>[Signature]</u>	<u>12-17-90</u>
TRAINING SUPPORT SUPERVISOR	<u>[Signature]</u>	<u>12-18-90</u>
PLANT SUPERVISOR/ USER GROUP SUPERVISOR	<u>[Signature]</u>	<u>1/7/91</u>

Summary of Pages

(Effective Date: 1/7/91)

Number of Pages: 7

<u>Date</u>	<u>Pages</u>
December 1990	1 - 7

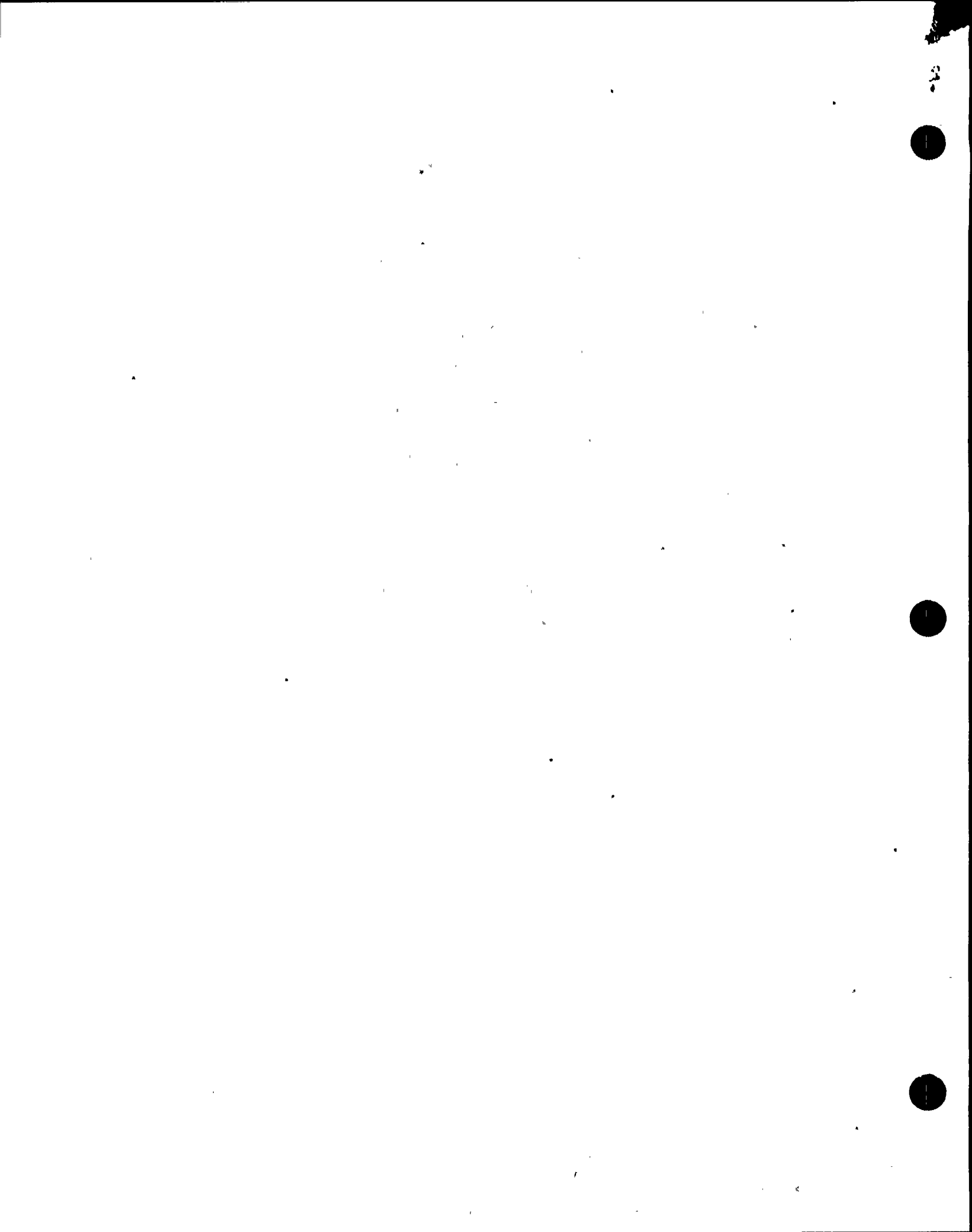
TRAINING DEPARTMENT RECORDS ADMINISTRATION ONLY:

VERIFICATION

DATA ENTRY

RECORDS:

DOCUMENT



I. TRAINING DESCRIPTION

- A. Title of Lesson: Operating Procedures/Procedure Changes
- B. Lesson Description: Provide instruction in Operating Procedures and/or changes to current Operating Procedures for Nine Mile Point Unit 2.
- C. Estimate of the Duration of the Lesson: Variable, depending upon procedure(s) covered and/or change(s) made.
- D. Method of Evaluation, Grade Format, and Standard of Evaluation: Written Exam, when required, with a passing grade of 80% or greater.
- E. Method and Setting of Instruction: May include but is not limited to lecture, facilitated discussion, Simulator demonstration, or case study where applicable, at the discretion of the instructor assigned.
- F. Prerequisites:
 - 1. Instructor:
 - a. Certified in accordance with NTP-16.
 - 2. Trainee:
 - a. In accordance with NTP-12.
- G. References:
 - 1. Procedure(s) of concern
 - 2. Supporting documentation (ie. Modification Packages, Engineering Reports etc.)
 - 3. AP-9.0 Administration of Training
 - 4. Related Operations Text material (ie. Operations Technology, NLO Test.)
 - 5. Applicable Event Reports (LER, SER, SOER etc.)

II. REQUIREMENTS

- A. Requirements for class:
 - 1. INPO NLO Guidelines
 - 2. NTP-12



III. TRAINING MATERIALS [(*) optional]

A. Instructor Materials:

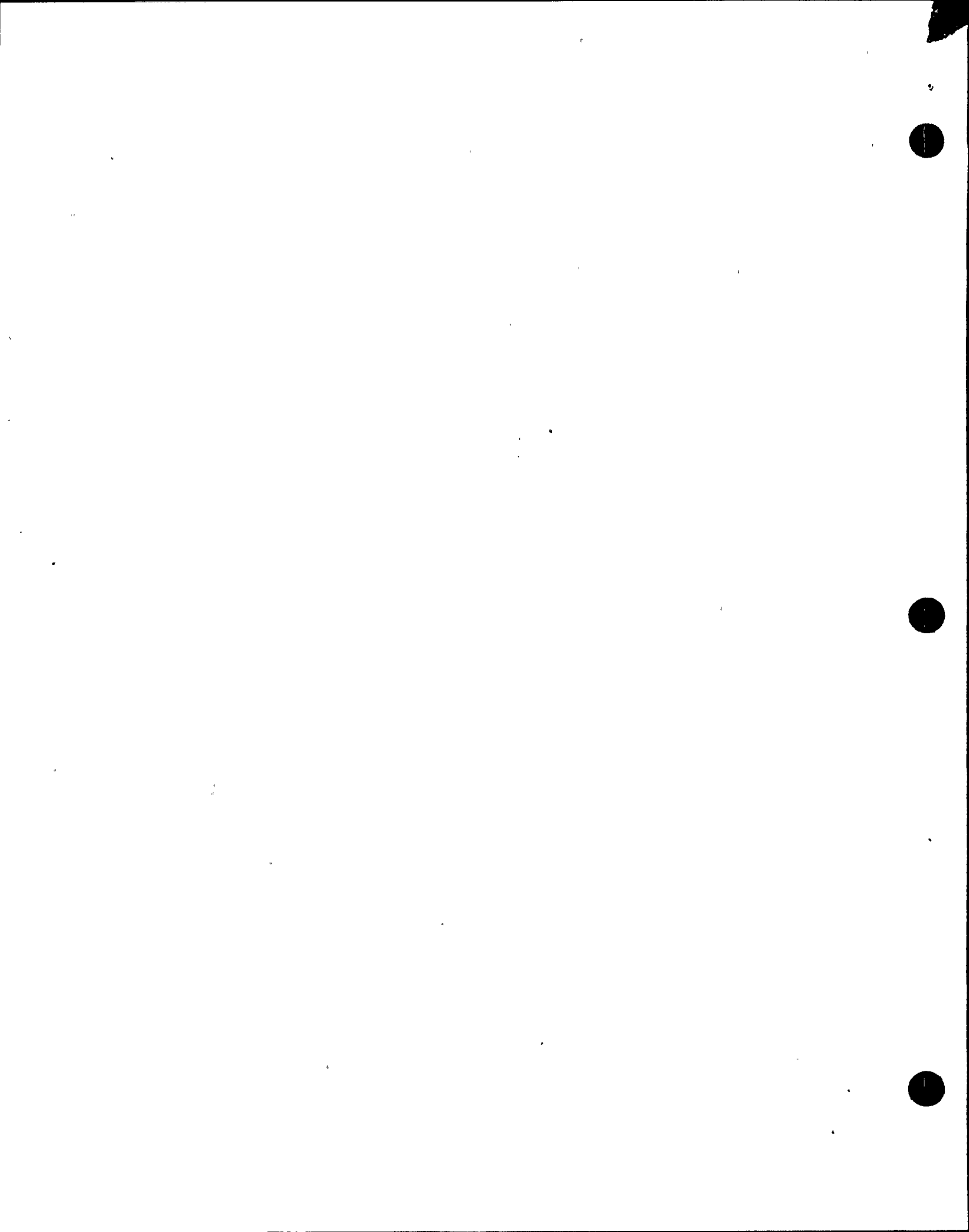
1. Whiteboard, markers, erasers
2. Transparencies
3. Overhead Projector
4. Working copy of this lesson plan
5. Scientific Calculator (*)
6. Handouts, worksheets with answer keys (*)
7. Student Text
8. Films
9. Flipchart (*)

B. Trainee Materials:

1. Text
2. Pens, pencils, paper
3. Binders (*)
4. Course Evaluation Sheet(s)

IV. EXAM AND MASTER ANSWER KEYS

- A. Exams and answer keys are maintained in accordance with NTI 4.4.1.



V. LEARNING OBJECTIVES

A. Terminal Objectives:

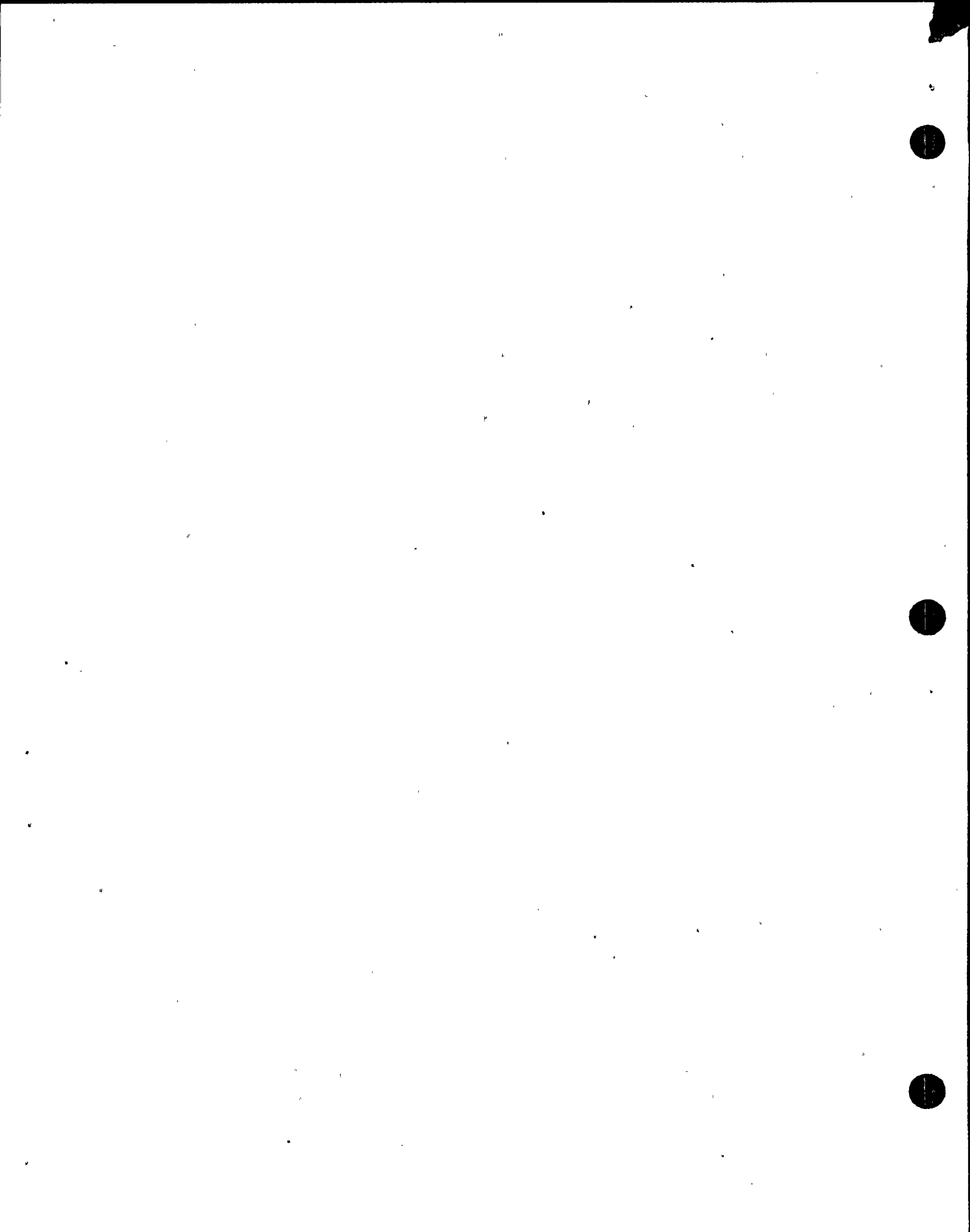
Concerning Operating Procedures/Changes; upon satisfactory completion of this lesson, the trainee will demonstrate the knowledge required to correctly:

- TO-1.0 Discuss and/or describe the:
- a. System/procedure history
 - b. Procedure use
 - c. Plant/industry impact
 - d. Plant/industry experiences of the Operating Procedure(s) and/or procedure(s) change(s) covered during this presentation.

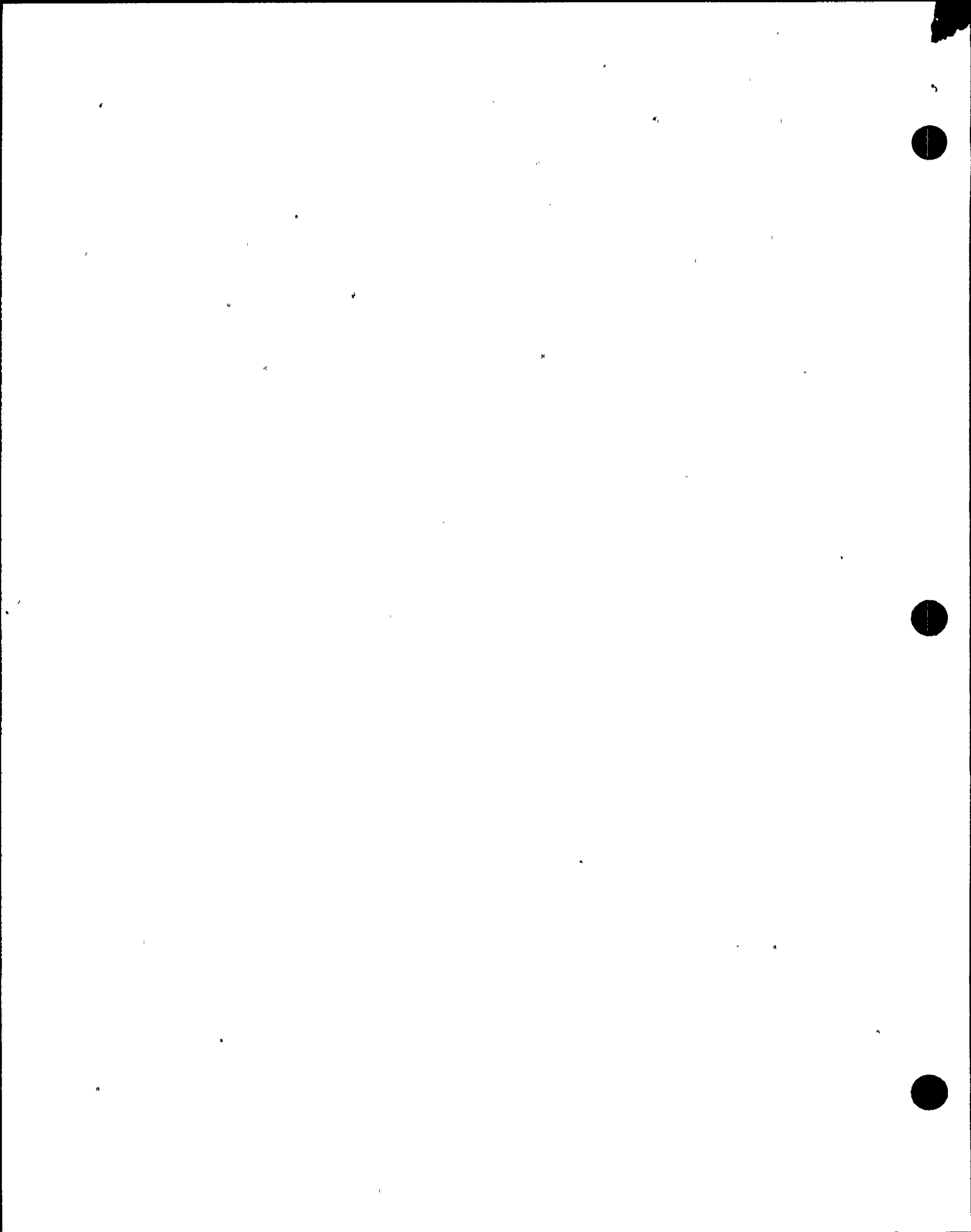
B. Enabling Objectives:

EO-1.0 Regarding the Operating Procedure(s) covered in the presentation; determine, identify and/or use the correct procedure (including current revision, TCN of concern, or other identified change) to perform the following:

- a. Identify the actions and/or changes to actions related to NLO duties for:
 - 1) Start-up
 - 2) Normal Operations
 - 3) Shut-down
 - 4) Off-Normal Operations
 - 5) Correcting alarm conditions
 - 6) Precautions & Limitations
- b. Locate information or informational changes related to NLO duties for the following:
 - 1) Start-up
 - 2) Normal Operations
 - 3) Shut-down
 - 4) Off-Normal Operations
 - 5) Correcting alarm conditions
 - 6) Precautions & Limitations



- EO-2.0 Discuss the impact of procedural errors (concerning the procedure(s) covered) for the following areas of concern:
- a. System operation/components
 - b. Effect on plan operation
 - c. Industry experiences
- EO-3.0 Explain the industry and/or plant experience which resulted in this procedure/procedure change being implemented (where applicable).



A. INTRODUCTION

1. Purpose: To provide information regarding Operating Procedures and/or changes to those procedures.

Prior to commencing presentation discuss:

- 1) Method of evaluation
- 2) Completion of Course Evaluation Forms
- 3) Objectives of the presentation

It is strongly recommended that instructors avoid "reading" to trainees. The method of presentation should be determined by which ever method the assigned instructor decides would be the most effective for delivery of the intended material. (ie. Case Study, Guest Speaker, Work Sheet, Simulator demonstration, discussion etc.)

B. GENERAL DESCRIPTION

See Procedure(s) to be presented.

A general outline of the procedure(s) to be covered should be provided as part of the introductory segment of the lesson. Include in the outline a brief system description/history and also a brief on areas of special concern and/or change(s).

EO-1.0a,
b,



C. DETAILED DESCRIPTION

Cover all aspects of the procedure, equipment or procedure change which may impact specific equipment as necessary. Also, any changes to Instrumentation, Controls or System Interlocks should be elaborated upon to ensure that trainees comprehend the impact on operation of the system.

Ensure that all materials used are current and support the lesson being delivered as well as the method chosen for delivery.

EO-1.0a,
b

D. SYSTEM INTERRELATIONS

Procedures discuss system interrelationships and those sections should be addressed with the trainees to establish their understanding of system interdependence. Any changes to existing interrelations need to be investigated and understood by the trainees to avoid "unexpected" results during system operation.

Emphasize operation caution and alertness while performing steps in any procedure but special care should be observed while performing sections which have been changed.

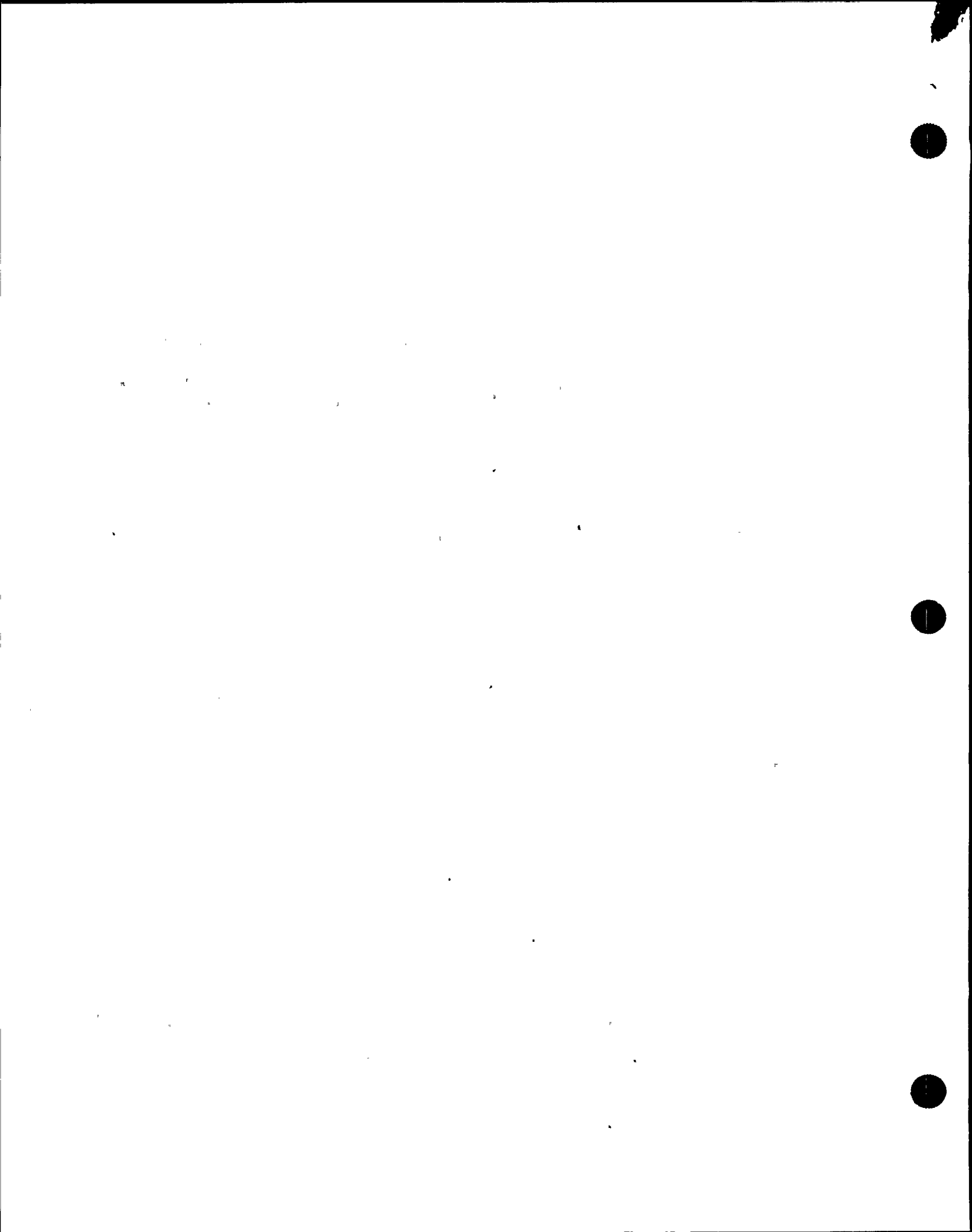
EO-1.0a,
b

E. PRECAUTIONS AND LIMITATIONS

Precautions and Limitations are special notations in the procedure used to alert Operators to situations or limits which are not immediately obvious. As such they are an important part of each procedure and require emphasis. Also, any change which effects precautions, limitations or "notes" in a procedure should be pointed out and examined.

Stress that trainee familiarity with these parts of procedures may help them avoid unnecessary problems and/or situations.

EO-1.0a,
b



F. SYSTEM OPERATION

These sections of the Operating Procedures describe the system parameters, methods and expected events for system operations. They include steps required to perform acceptable system evolutions for,

1. Start-up
2. Normal Operations
3. Shutdown
4. Off Normal modes of operation.

Procedural errors, either due to Operator error or inadequate procedures, are and have been the cause of many undesirable events. Use this portion of the presentation to discuss proper system operation.

EO-2.0

Strict procedure compliance should be reinforced by the presentation. Procedures are the best methods available to avoid personnel injury & damage to plant equipment as well as the best approach to providing for public safety.

G. HISTORY

A description of the system history and industry events leading to implementation of or changes in the Operating Procedure(s) is necessary to ensure trainees have assimilated the knowledge required to understand the procedure or changes. Modifications to systems which have impacted the procedure should also be reviewed.

Special note should be taken of experiences of others and correlations should be drawn between "their" situations or responses and "ours".

EO-3.0

H. REVIEW

Recap the major points of the presentation and discuss each of the E.O.'s as they apply to the procedure(s) being presented.

This segment should draw the presentation to a conclusion and solidify the information presented. It also will allow the instructor to evaluate trainee comprehension of the material presented.

