



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

April 9, 2009

LICENSEE: Exelon Nuclear

FACILITY: LaSalle County Station

SUBJECT: SUMMARY OF DECEMBER 11, 2008, PRE-APPLICATION MEETING WITH  
EXELON NUCLEAR GENERATION COMPANY, REGARDING LICENSE  
AMENDMENT REQUEST FOR AUTOMATIC DEPRESSURIZATION SYSTEM

On December 11, 2008, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Exelon Nuclear Generation Company (the licensee) at the NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss a pre-application license amendment request (LAR) for the automatic depressurization system (ADS). A list of attendees is provided as Enclosure 1.

The licensee presented information pertaining to the proposed changes to the ADS (See Enclosure 2). The presentation included: an overview of the ADS, a review of background information regarding the need for a LAR for the ADS, a review of the technical and regulatory aspects of the planned LAR, a review of an outline of the draft LAR with respect to the required scope and level of detail, and a discussion the path necessary for the LAR approval.

The staff discussed with the licensee the ADS function of the safety relief valves and the low-low setpoint (LLS) of these valves, both from a current design perspective, and a proposed modification aspect. Also discussed was the importance of maintaining the safety function of the ADS during any postulated condition and the ADS accumulator backup gas system.

The licensee indicated they planned to submit the LAR for the ADS in the near future.

Members of the public were not in attendance. Public Meeting Feedback forms were not received.

Please direct any inquiries to me at 301-415-3154, or SPS1@nrc.gov.

A handwritten signature in black ink, reading "Stephen Sands", is positioned above the typed name.

Stephen Sands, Project Manager  
Plant Licensing Branch III-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-373 and 50-374

Enclosures:

1. List of Attendees
2. Licensee Handout

cc w/encl: Distribution via ListServ

LIST OF ATTENDEES

December 11, 2008, MEETING WITH EXELON

PROPOSED PRE-APPLICATION LICENSE AMENDMENT REQUEST (LAR) MEETING WITH  
EXELON TO DISCUSS THE AUTOMATIC DEPRESSURIZATION SYSTEM FOR LASALLE  
COUNTY STATION, UNITS 1 AND 2

| <b>Name</b>      | <b>Organization</b>   | <b>Phone Number</b> |
|------------------|-----------------------|---------------------|
| Stephen Sands    | NRC/NRR/DORL/LPLIII-2 | 301-415-3154        |
| Russell Gibbs    | NRC/NRR/DORL/LPLIII-2 | 301-415-7198        |
| Jon McHale       | NRC/DCI/CPTB          | 301-415-3254        |
| Ben Parks        | NRC/NRR/DSS/SRXB      | 301-415-6472        |
| Jay Houston      | Exelon                | 815-415-2810        |
| Mike Peters      | Exelon                | 815-415-2591        |
| Alison Mackellar | Exelon                | 630-657-2823        |
| Terrence Simpkin | Exelon                | 815-415-2800        |
| Steve Tingen     | NRC/NRR/DCI/CPTB      | 301-415-1280        |
| Mike Mahoney     | NRC/NRR/DORL/LPLIII-2 | 301-415-3867        |
| Richard Lobel    | NRC/NRR/DSS/SCVB      | 301-415-2865        |
| Ahsan Sallman    | NRC/NRR/DSS/SCVB      | 301-415-2830        |

**Exelon<sup>®</sup>**

Nuclear

# **LaSalle County Station**

**Pre-Application Meeting  
License Amendment Request  
Automatic Depressurization System  
December 11, 2008**

ENCLOSURE 2

## **Meeting Participants - Exelon**

Terry Simpkin – LaSalle Regulatory Assurance Manager

Jay Houston – LaSalle Regulatory Assurance

Mike Peters – LaSalle Design Engineering

Patrick Simpson – Licensing Manager

Alison Mackellar – Licensing Engineer

# Introduction

- Overview of the Automatic Depressurization System (ADS)
- Review background information regarding the need for a License Amendment Request (LAR) for the ADS
- Review the technical and regulatory aspects of the planned LAR
- Review an outline of the draft LAR with respect to the required scope and level of detail
- Discuss the path necessary for LAR approval

## **Issue Review**

- Proposed change is needed to correct a degraded non-conforming condition and to resolve a non-conservative Technical Specification (TS)
- Common pneumatic supply utilized to support the Low-Low Setpoint (LLS) function of the Safety Relief Valves (SRVs) and the ADS function of the SRVs
- The sharing of a common pneumatic supply could result in a condition that prevents the ADS SRVs from performing their design function

## Issue Review

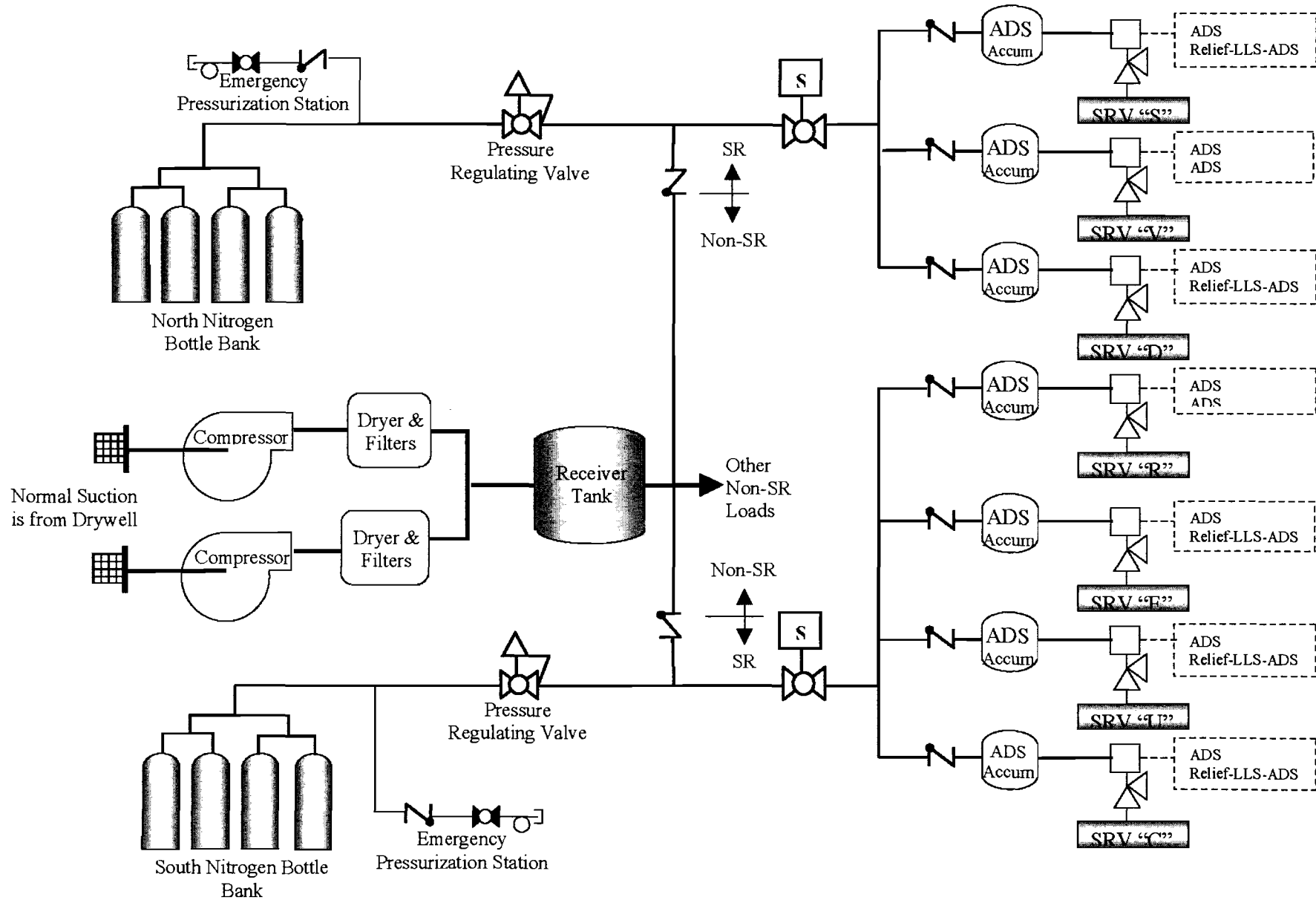
- The current TS bases for the allowed outage time of 72 hours is that the ADS accumulator backup compressed gas system nitrogen bottles are only required to provide long-term cooling and would not be required immediately following an accident
- However, due to the shared interface between the pneumatic supply utilized by both LLS and ADS, sufficient compressed gas might not be available to ensure both the LLS and ADS SRV functions are met

### Interface between Div 2 ADS and LLS

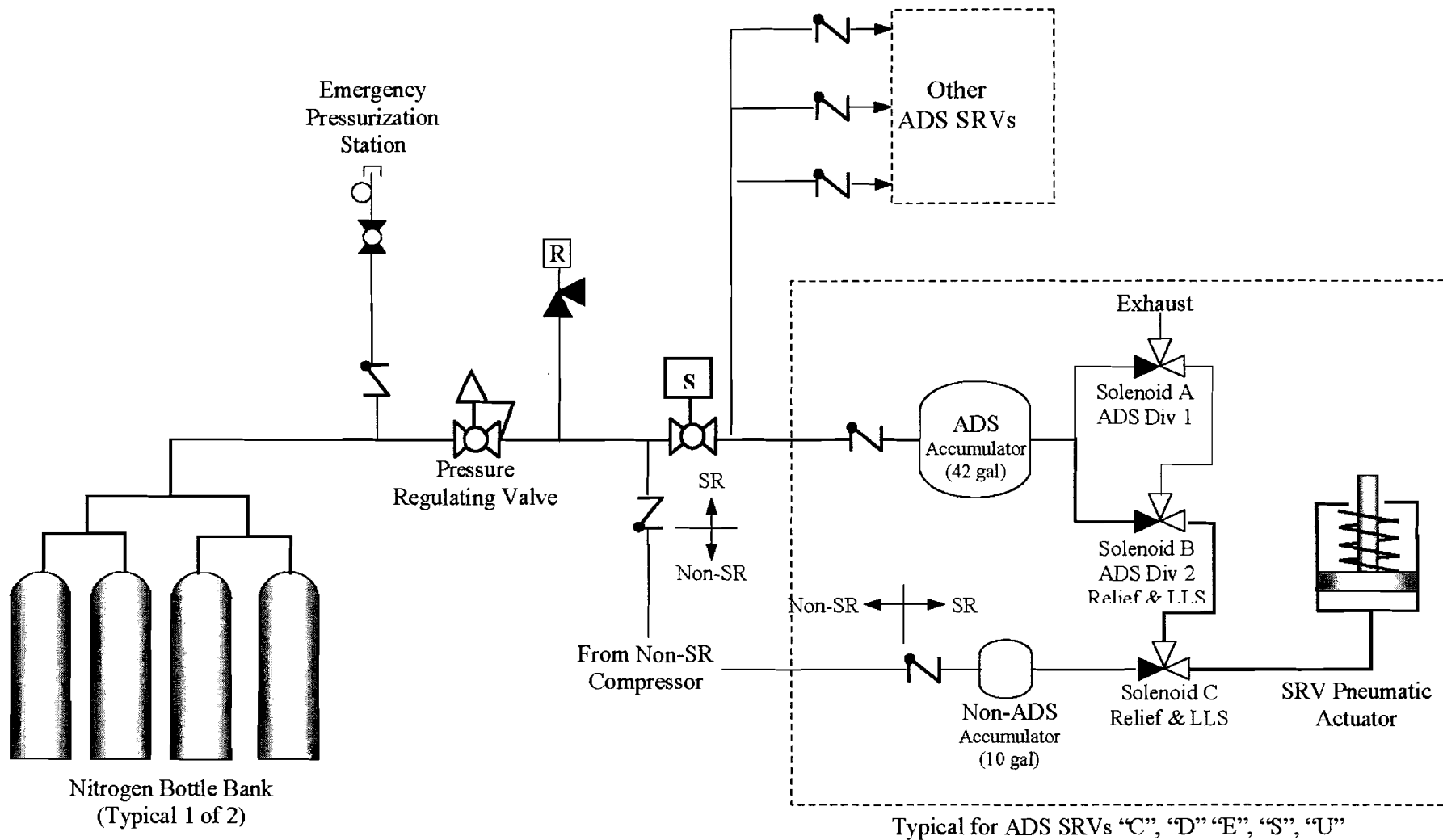
| Basic Logic to Energize SRV Solenoids<br>ADS and LLS functions only |              |                  |              |                |
|---|--------------|------------------|--------------|----------------|
| SRV   | A Solenoid   | B Solenoid       | C Solenoid   | N2 Bottle Bank |
| C   | ADS Div 1    | ADS Div 2<br>LLS | LLS          | South          |
| D   | ADS Div 1    | ADS Div 2<br>LLS | LLS          | North          |
| E   | ADS Div 1    | ADS Div 2<br>LLS | LLS          | South          |
| F   |              |                  |              |                |
| H   |              |                  |              |                |
| K   | LLS (Unit 2) | LLS              | LLS (Unit 1) |                |
| L   |              |                  |              |                |
| M   |              |                  |              |                |
| P   | LLS (Unit 2) | LLS              | LLS (Unit 1) |                |
| R   | ADS Div 1    | ADS Div 2        |              | South          |
| S   | ADS Div 1    | ADS Div 2<br>LLS | LLS          | North          |
| U   | ADS Div 1    | ADS Div 2<br>LLS | LLS          | South          |
| V   | ADS Div 1    | ADS Div 2        |              | North          |



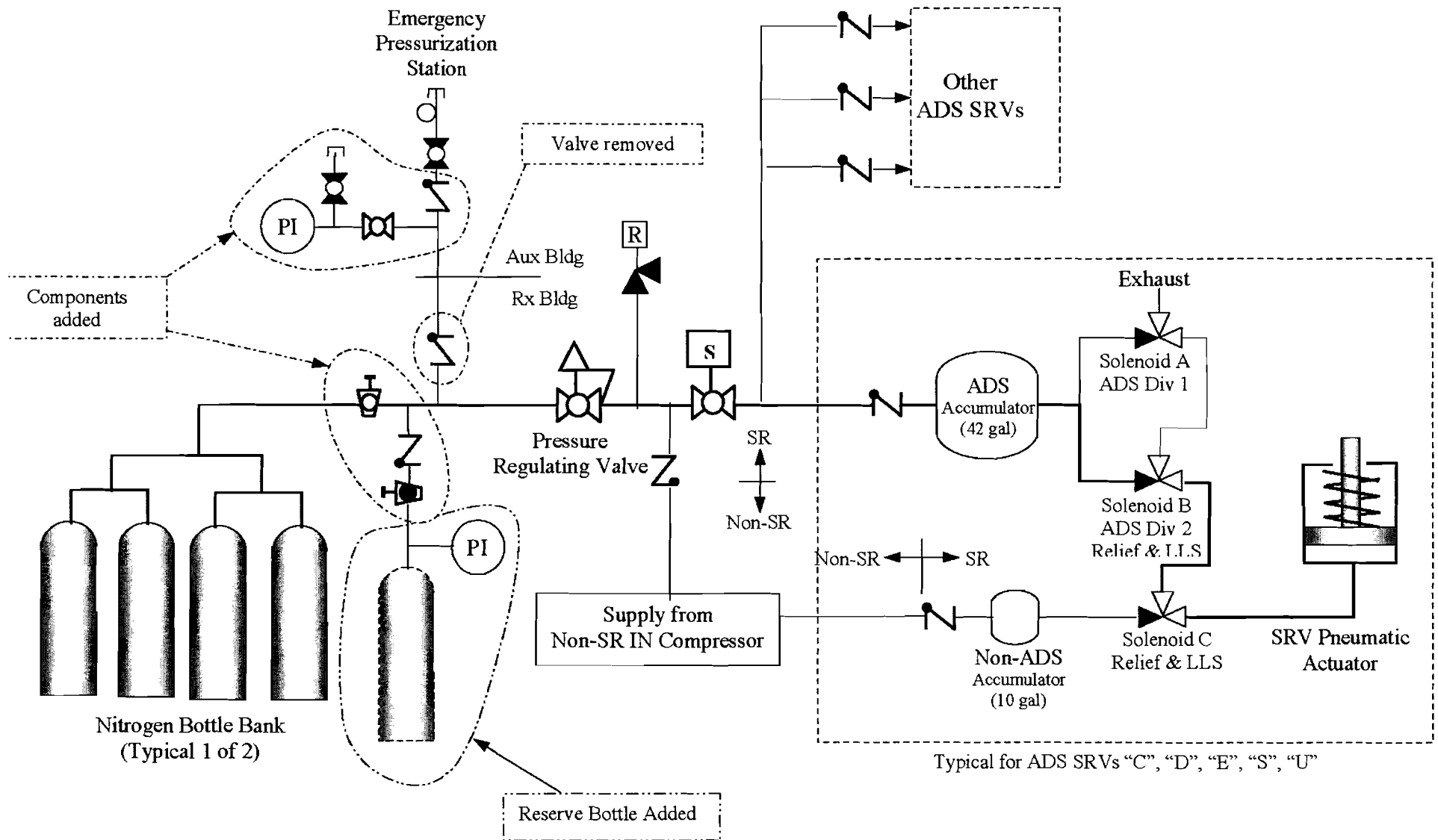
# SIMPLIFIED SCHEMATIC OF THE ADS PNEUMATIC SYSTEM



# **SIMPLIFIED SCHEMATIC OF THE ADS/LLS INTERFACE PREVIOUS CONFIGURATION**



# **SIMPLIFIED SCHEMATIC OF THE ADS/LLS INTERFACE CONFIGURATION WITH MODIFICATIONS COMPLETE**



## **LAR Outline**

- The current CT for TS 3.5.1 Condition D that allowed 72 hours to restore ADS accumulator backup compressed gas system bottle pressure to  $\geq 500$  psig is being deleted.
- Existing TS 3.5.1 Condition H is being revised to include the condition associated with inoperability of the ADS accumulator backup compressed gas system.
- SR 3.5.1.4 will be modified to maintain a minimum bottle pressure of 500 psig for each bottle bank or a minimum bottle pressure of 1100 psig for the reserve bottle.

## **LAR Outline**

- To ensure the safety function of the ADS SRVs is maintained during any postulated condition, the ADS accumulator backup compressed gas system will be required to be operable whenever the ADS function is required to be operable.
- A proposed new section of the LaSalle Technical Requirements Manual (TRM) and TRM Bases will ensure that the applicable function of the low and medium LLS SRV be operable.
- Failure of the low and medium range LLS function has the potential to adversely impact ADS operability and therefore the new TRM will require entry into the revised TS 3.5.1 Condition for two or more required ADS valves inoperable should either the low or medium function of the affected SRVs be inoperable.

**Feedback ?**

LICENSEE: Exelon Nuclear

FACILITY: LaSalle County Station

SUBJECT: SUMMARY OF DECEMBER 11, 2008, PRE-APPLICATION MEETING WITH  
EXELON NUCLEAR GENERATION COMPANY, REGARDING LICENSE  
AMENDMENT REQUEST FOR AUTOMATIC DEPRESSURIZATION SYSTEM

On December 11, 2008, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Exelon Nuclear Generation Company (the licensee) at the NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss a pre-application license amendment request (LAR) for the automatic depressurization system (ADS). A list of attendees is provided as Enclosure 1.

The licensee presented information pertaining to the proposed changes to the ADS (See Enclosure 2). The presentation included: an overview of the ADS, a review of background information regarding the need for a LAR for the ADS, a review of the technical and regulatory aspects of the planned LAR, a review of an outline of the draft LAR with respect to the required scope and level of detail, and a discussion the path necessary for the LAR approval.

The staff discussed with the licensee the ADS function of the safety relief valves and the low-low setpoint (LLS) of these valves, both from a current design perspective, and a proposed modification aspect. Also discussed was the importance of maintaining the safety function of the ADS during any postulated condition and the ADS accumulator backup gas system.

The licensee indicated they planned to submit the LAR for the ADS in the near future.

Members of the public were not in attendance. Public Meeting Feedback forms were not received.

Please direct any inquiries to me at 301-415-3154, or SPS1@nrc.gov.

Stephen Sands, Project Manager  
Plant Licensing Branch III-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-373 and 50-374

Enclosures:

1. List of Attendees
2. Licensee Handout

cc w/encl: Distribution via ListServ

DISTRIBUTION:

|                               |                             |                         |
|-------------------------------|-----------------------------|-------------------------|
| PUBLIC                        | RidsOgcRP Resource          | R. Lobel, NRR           |
| LPL3-2 r/f                    | RidsRgn3MailCenter Resource | A. Sallman, NRR         |
| RidsAcraAcnw_MailCTR Resource | R. Gibbs, NRR               | B. Parks, NRR           |
| RidsNrrDorLp3-2 Resource      | M. Mahoney, NRR             | M. Ferdas, EDO Region 3 |
| RidsNrrPMSSands Resource      | J. McHale, NRR              | C. Tucci, NRR           |
| RidsNrrLATHarris Resource     | S. Tingen, NRR              |                         |

ADAMS Accession No. Meeting Summary ML090900502

NRC-001

| OFFICE | DORL/LPL3-2/PM | DORL/LPL3-2/LA | DORL/LPL3-2/BC |
|--------|----------------|----------------|----------------|
| NAME   | SSands         | THarris        | RGibbs         |
| DATE   | 04/ 8 /09      | 04/ 9 /09      | 04/ 9 /09      |

OFFICIAL RECORD COPY