

**ATTACHMENT 1**  
 CPSES NRC Written Exam  
 Performance Analysis  
 (3/24/05)

| Q  | Key | R | I1 | I2 |
|----|-----|---|----|----|
| 1  | A   |   |    | B  |
| 2  | A   |   |    |    |
| 3  | D   | C | C  | B  |
| 4  | B   |   |    |    |
| 5  | B   | C |    |    |
| 6  | A   |   | C  | C  |
| 7  | A   |   | D  |    |
| 8  | B   |   | A  |    |
| 9  | A   | B | B  |    |
| 10 | A   |   |    |    |
| 11 | D   |   |    |    |
| 12 | A   |   |    |    |
| 13 | B   |   |    |    |
| 14 | C   | A |    |    |
| 15 | C   |   |    |    |
| 16 | C   |   |    |    |
| 17 | C   |   | B  |    |
| 18 | D   |   |    |    |
| 19 | D   |   |    |    |
| 20 | C   |   |    |    |
| 21 | B   | A |    |    |
| 22 | C   |   | D  |    |
| 23 | D   |   |    |    |
| 24 | C   |   | D  |    |
| 25 | A   | C | C  |    |

| Q  | Key | R | I1 | I2 |
|----|-----|---|----|----|
| 26 | D   | B |    |    |
| 27 | B   |   |    |    |
| 28 | A   |   |    |    |
| 29 | A   |   |    |    |
| 30 | C   | D | D  |    |
| 31 | B   | A |    | D  |
| 32 | D   |   |    |    |
| 33 | A   | D | B  | D  |
| 34 | D   |   |    |    |
| 35 | B   |   |    |    |
| 36 | A   | B |    | B  |
| 37 | A   | C |    |    |
| 38 | C   |   |    |    |
| 39 | C   |   |    |    |
| 40 | C   |   |    |    |
| 41 | B   |   |    | D  |
| 42 | C   |   |    |    |
| 43 | A   |   |    |    |
| 44 | D   |   |    |    |
| 45 | C   |   |    |    |
| 46 | D   |   |    |    |
| 47 | C   |   |    |    |
| 48 | A   |   |    |    |
| 49 | C   | A |    |    |
| 50 | D   | A |    |    |

| Q  | Key | R | I1 | I2 |
|----|-----|---|----|----|
| 51 | C   |   |    |    |
| 52 | B   | A | A  |    |
| 53 | C   |   |    |    |
| 54 | C   |   |    |    |
| 55 | C   | B |    |    |
| 56 | A   |   |    |    |
| 57 | C   |   |    |    |
| 58 | D   | C |    |    |
| 59 | A   |   |    |    |
| 60 | C   |   |    | D  |
| 61 | A   |   | D  |    |
| 62 | A   |   |    |    |
| 63 | D   |   | B  |    |
| 64 | C   | A | D  |    |
| 65 | B   |   |    |    |
| 66 | D   |   |    | B  |
| 67 | C   | A |    |    |
| 68 | A   | C |    |    |
| 69 | A   |   |    |    |
| 70 | C   |   |    |    |
| 71 | B   |   |    |    |
| 72 | A   |   |    |    |
| 73 | C   |   |    |    |
| 74 | C   |   |    |    |
| 75 | C   |   |    |    |

| Q   | Key | I1 | I2 |
|-----|-----|----|----|
| 76  | B   | A  |    |
| 77  | C   | D  |    |
| 78  | A   |    |    |
| 79  | D   |    |    |
| 80  | C   |    |    |
| 81  | B   |    |    |
| 82  | C   |    |    |
| 83  | B   |    |    |
| 84  | D   |    | B  |
| 85  | C   |    |    |
| 86  | A   |    |    |
| 87  | D   |    |    |
| 88  | A   | C  | C  |
| 89  | A   |    |    |
| 90  | B   |    |    |
| 91  | D   |    |    |
| 92  | A   |    |    |
| 93  | A   |    | C  |
| 94  | B   | D  |    |
| 95  | B   |    |    |
| 96  | C   |    |    |
| 97  | D   |    |    |
| 98  | D   |    |    |
| 99  | B   |    |    |
| 100 | C   |    |    |

NOTE: Question (numbers) boxed by double lines are those missed by half or more of the applicants.

CPSES NRC Written Exam  
Performance Analysis Report  
(3/24/05)

This report describes the findings discovered during the performance evaluation of the CPSES Initial NRC Written Examination administered March 24, 2005. The intent is to identify any training program deficiencies based on the applicant's written exam performance. It is important to note that these conclusions are based on limited data points and may not be statistically significant as only three applicants sat for this exam.

A detailed review was conducted on any question missed by half or more of the applicants (See Attachment 1). Of the 16 questions identified, the following categories were noted (see Attachment 2 for details):

- 5 - Tech Spec questions (2 relating to Bases)
- 4 - System questions
- 3 - EOP questions (2 relating to Bases)
- 3 - ABN questions
- 1 - Design Bases question

Additionally, it was evident that almost a third of the identified questions dealt with the knowledge of Bases information (as it applies to Tech Specs, EOPs and Design).

Of the six SRO only questions missed only one was missed by both applicants. Of the 75 common (RO) questions only two were missed by all three applicants and all did not choose the same distractor on those two questions. The small statistical sample size, the small overall number of questions missed, the spread of the topics, and the very small number of questions missed by all candidates leads CPSES to conclude there are no generic training program deficiencies.

Lastly, a detailed review of the exam conducted with the applicants yielded no recommended changes to the exam nor were any training program deficiencies identified.

**ATTACHMENT 2**  
 CPSES NRC Written Exam  
 Performance Analysis Report

| Q # | <u>Subject Matter - Knowledge Deficiency</u>                            |
|-----|---|
| 3   | EOP Bases Q (Accelerated cooldown rate for Nat. Circ. in EOS-0.2)       |
| 6   | TS Bases Q (CCW cntmt isolation on Phase B signal)                      |
| 9   | EOP Bases Q (Isolation of ruptured SG in EOP-3.0)                       |
| 25  | ABN Procedure NOTE Q (Isotopes indicative of crud burst in ABN-102)     |
| 30  | ABN Procedure Step Q (RSP Emergency Boration indication in ABN-905)     |
| 31  | Design Bases Q (RCS pressure boundary isolation design power supplies)  |
| 33  | System Dynamics Q (PRT indication response to sources of in-leakage)    |
| 36  | System Control Q (PRZR pressure control response to instrument failure) |
| 52  | System Q (EDG overspeed trip capability with loss of air pressure)      |
| 64  | System Q (Actions to reset CW pump breaker on loss of excitation)       |
| 76  | EOP Q (CSFST entry conditions for FRC-0.2 degraded core cooling)        |
| 77  | TS / System Q (Identify PRZR pressure TS remote shutdown instrument)    |
| 84  | ABN Procedure Q (Entry conditions / actions in ABN-804)                 |
| 88  | TS Bases Q (Main Steam Safety Valve TS action statement bases)          |
| 93  | TRM Q (RCS Chemistry limit and associated action statement)             |
| 94  | TS LCO / Bases Q (CETC limits/bases for PAM Instrumentation TS)         |