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THE BARCOCK & WILCOX COMPANY
NUCLEAR TRAINING CENTER
LYNCHBURG, VIRGINIA

TRAINEE EVALUATION AND TRAINING SUMMARY
FOR
SIMULATOR TRAINING (SHORT COURSE)

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METROPOLITAN ESTATE

Company

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THE BABCOCK & WILCOX COMPANY
NUCLEAR TRAINING CENTER
FOREWORD

This Training Summary Report booklet has been compiled to provide the employer of the trainee with a summary of the training received on the Babcock and Wilcox Nuclear Power Plant Simulator.

In addition to the copy forwarded to the employer, a copy will be retained on file at the Nuclear Training Center.

CONTENTS

Section	Title
A	Summary of Training Program Contents
B	Written Examination Results and Evaluation

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Section A
SUMMARY OF TRAINING PROGRAM CONTENTS

1. During the period between November 19 and November 30, 1973
Mr. W. L. Jones completed a Two week Operator
Training Course on the Pressurized Water Nuclear Power Plant Simulator
at the Babcock & Wilcox Nuclear Training Center, Lynchburg, Virginia.

2. The training program consisted of the following:

Control Room Operations	<u>40</u>	hours
Lectures	<u>24</u>	hours
Study	<u>10</u>	hours
Written Examinations	<u>4</u>	hours

The total hours in the control room were divided approximately equal in
the following shift positions:

Shift Supervisor (15)
Reactor Operator (20)
Assistant Reactor Operator (130)

3. Lecture subjects and hours per subject are as follows:

<u>Subject</u>	<u>Hours</u>
a. Course Introduction and Plant Familiarization	<u>2</u>
b. Plant Operations	<u>16</u>
c. Soluble Poison Concentration Control	<u>4</u>
d. Reactivity Balance	<u>4</u>

4. The normal, abnormal and emergency operations in which the trainee
participated are as follows:

<u>Normal Operations</u>	<u>No. of Times Performed</u>
(a) Reactor Startup (shutdown to 0 power)	<u>10</u>
(b) 0-15% Power (isolated heatup 132-579)	<u>6</u>
(c) 15-100% Power	<u>4</u>
(d) Power Operations (manual and auto)	<u>10</u>
(e) 100%-15% Power	<u>2</u>
(f) Plant Shutdown Cooldown (100% to ~ 450F)	<u>1</u>
(g) Submergence at Power	<u>1</u>
(h) Reactivity Sources/Estimated Critical Positions	<u>6</u>

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6. (Continued)

<u>Abnormal/Emergency Operations</u>	<u>No. of Times Performed</u>
(a) Reactor Trip	2
(b) Turbine Trip	4
(c) RC Pump Trip	4
(d) Dropped Control Rod	1
(e) Stuck Control Rod	1
(f) Pressurizer Spray Valve Failure	1
(g) RC Temperature Instrumentation Failures (Hot Leg and Cold Leg)	5
(h) Steam Line Rupture	2
(i) RC System Leaks	2
(j) FW Pump Trips	4
(k) Electrical Load Rejection	1
(l) _____	_____
(m) _____	_____
(n) _____	_____
(o) _____	_____

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Section B

WRITTEN EXAMINATION RESULTS

<u>Title</u>	<u>Grade</u>	<u>Class Average</u>
Plant Operations Exam #1	87	79
Plant Operations Exam #2	83.5	85.75
Overall Average	85.45	82.4

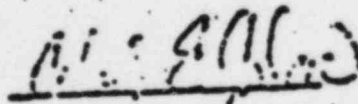
Section C

INSTRUCTOR'S EVALUATION

- (A) The following evaluation is the opinion of the instructor(s) who worked with the trainee during the training program. Comments are based on observation and oral questioning throughout the training program.
- (B) Since the period of observation was for only two weeks, a valid evaluation of the trainee's capability is not possible. The following comments are provided to point out areas in which the trainee is weak and/or strong to aid in establishing further training requirements.

Mr. Iewe observed the training of the three control operators under his supervision. He also monitored the classroom lectures and took the examination.

His comments were both helpful and informative and assisted us in providing concentrate effort in areas he felt would be most beneficial to his group.




INSTRUCTOR

Babcock & Wilcox

Power Generation Group

P.O. Box 1260, Lynchburg, Va. 24505

Telephone: (804) 384-5111

May 19, 1975

Mr. James Seelinger
Superintendent of Training
Metropolitan Edison Company
P. O. Box 480
Middletown, Pennsylvania 17057

Dear Mr. Seelinger:

SUBJECT: Metropolitan Edison Company Operator Training
Documentation - B&W Reference 601-8027

The Metropolitan Edison Company personnel listed below completed a one-week requalification operator training course on the Babcock & Wilcox Nuclear Power Plant Simulator.

24-28 March

Mike Ross
Bill Zave
Denny Bolts
Tex Acker

31 March-4 April

Bernie Smith
John Morgan
Richard Marley
Robert Reilman
Larry Hall

7-11 April

Garry Wallace
Jim Smith
George Kunder
Ken Bryan
Tom Goodlavage
Walter Dabb

14-18 April

Rick Porter
Al Fredlund
Jim Floyd
Ted Book
Kelson Brown
Terrence Crouse

21-25 April

Joe Chwastyk
Carl Guthrie
Joe Colitz
Brian Mahler
John Banks

28 April-2 May

Marsh Beers
Walt Perks
Jack Berbein
Dale Pilseth
Greg Hitt
Joe Kelsch

The attached Training Summary Sheet for each individual is forwarded for your information and training records.

Should you have any questions or require any additional information, please call me.

Cordially,

Billy W. Street
Billy W. Street, Instructor
Nuclear Training Center

BWS:KF

Attachment

cc: J. Berbein

The Babcock & Wilcox Company / Established 1867

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SUMMARY OF SIMULATOR REQUALIFICATION TRAINING

FOR

METROPOLITAN EDISON COMPANY

NAME William LoweDATE 03/24/75 - 03/28/75

The training program consisted of 20 hours of simulator operations and 20 hours of classroom time. The 20 hours of classroom time consisted of approximately 16 hours of support lectures for the simulator operations with approximately 4 hours allotted for self-study.

<u>Evolutions and Emergencies in Which Trainee Participated</u>	<u>No. of Times Performed</u>
Plant Startup (Hot Shutdown to 100T)	1
Loss of Feedwater to One OTSG	1
Turbine Trip	1
Reactor Coolant System Rupture	1
Dropped Control Rod	1
Steam Rupture	2
Feedwater Pump Trip With ICS in Automatic Mode	2
Feedwater Pump Trip With Diamond in Manual	1
OTSG Tube Rupture	1
Reactor Coolant Pump Trip	3
Turbine Header Pressure Instrumentation Failure	2
ICS Runback With Feedwater Demand in Manual	1
Failure of Selected T ₁ Instrument	1
Failure of Selected T ₂ Instrument	1
Failure of SI-3	1
Loss of Condenser Vacuum	1
Turbine Bypass Valve Fails Open	2
Loss of Running Makeup Pump	1
Feedwater LP Instrument Failure	1
Fail OTSG Operate Level to ICS	-
Fail OTSG Startup Level to ICS	-
Fail Pressurizer Level Control Valve	-
Fail Feedwater Flow Signal to	-
Fail Pressurizer Level Instrument	-
Fail Neutron Error Signal to Diamond	-
Pressurizer Spray Valve Fails Open	-
Stuck Control Rod	-
Reactor Coolant Leak in Letdown Cooler	-
Fail Three-Way Valve	-

[Signature]
 Instructor, Nuclear Training Center
 Babcock & Wilcox
 Lynchburg, Virginia

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PLANT OPERATIONS TRAINING

WEEK 10, 1
GROUP A

1. 1-3 PM
2. 3-5 PM
3. 5-8 PM
4. 8-10 PM

7. 10-12 PM
8. 12-2 PM
9. 2-4 PM
10. 4-6 PM
11. 6-8 AM

CLASS ROOM SCHEDULE

Date	Day	Per.	Cip.	Subject	Reference	Per.	Cip.	Operation
10/1	Mon	1	A	Introduction				Control Room Orient.
	Mon	2	A	Plant Startup	1103-4	3-4	A	Plant Startup to 100% (Not Shutdown to 100%)
10/2	Tue	1	A	ICS Review	1202-3			Turbine Trip at 100%
	Tue	2	A	Turbine Trip	1103-4			Manual and Auto ICS Loss of FM Pump at 100% in Auto Loss of IV Pump at 100% (Planned in Manual) Loss of RC Pump at 100%
10/3	Wed	1	A	ICS Review	1202-14	3-4	A	Steam Rupture at 75%
	Wed	2	A	IV Pump Trip	1202-26			Manual and Auto ICS Dropped Rod From 100%
10/4	Thu	1	A	RC Pump Trip	1202-26	3-4	A	Loss of Condensate Pump at 100%
	Thu	2	A	Steam Rupture	1202-26			Loss of IV to the OTSG at 100%
10/5	Fri	1	A	Dropped Rod	1202-4			RC Leak (Greater than Makeup System Capability)
	Fri	2	A	Cond Pump Trip	1202-4			Header Drain Pump Trip at 100%
10/6	Sat	1	A	Loss of IV to One Steam Generator	1202-26	3-4	A	S/G Tube Rupture Loss of Running Makeup Pump Loss of Condenser Vacuum Change in Feedwater Temperature of 80F
	Sat	2	A	Header Drain Pump	1202-26			Turbine Bypass Valve Failure Rumback With IV Downed in Manual Turbine in Manual and Header Press Falls Low Instrument Failures (T ₁ , T ₂ , T ₃ , T ₄ , T ₅ , T ₆ , T ₇ , T ₈ , T ₉ , T ₁₀ , T ₁₁ , T ₁₂ , T ₁₃ , T ₁₄ , T ₁₅ , T ₁₆ , T ₁₇ , T ₁₈ , T ₁₉ , T ₂₀ , T ₂₁ , T ₂₂ , T ₂₃ , T ₂₄ , T ₂₅ , T ₂₆ , T ₂₇ , T ₂₈ , T ₂₉ , T ₃₀ , T ₃₁ , T ₃₂ , T ₃₃ , T ₃₄ , T ₃₅ , T ₃₆ , T ₃₇ , T ₃₈ , T ₃₉ , T ₄₀ , T ₄₁ , T ₄₂ , T ₄₃ , T ₄₄ , T ₄₅ , T ₄₆ , T ₄₇ , T ₄₈ , T ₄₉ , T ₅₀ , T ₅₁ , T ₅₂ , T ₅₃ , T ₅₄ , T ₅₅ , T ₅₆ , T ₅₇ , T ₅₈ , T ₅₉ , T ₆₀ , T ₆₁ , T ₆₂ , T ₆₃ , T ₆₄ , T ₆₅ , T ₆₆ , T ₆₇ , T ₆₈ , T ₆₉ , T ₇₀ , T ₇₁ , T ₇₂ , T ₇₃ , T ₇₄ , T ₇₅ , T ₇₆ , T ₇₇ , T ₇₈ , T ₇₉ , T ₈₀ , T ₈₁ , T ₈₂ , T ₈₃ , T ₈₄ , T ₈₅ , T ₈₆ , T ₈₇ , T ₈₈ , T ₈₉ , T ₉₀ , T ₉₁ , T ₉₂ , T ₉₃ , T ₉₄ , T ₉₅ , T ₉₆ , T ₉₇ , T ₉₈ , T ₉₉ , T ₁₀₀ , T ₁₀₁ , T ₁₀₂ , T ₁₀₃ , T ₁₀₄ , T ₁₀₅ , T ₁₀₆ , T ₁₀₇ , T ₁₀₈ , T ₁₀₉ , T ₁₁₀ , T ₁₁₁ , T ₁₁₂ , T ₁₁₃ , T ₁₁₄ , T ₁₁₅ , T ₁₁₆ , T ₁₁₇ , T ₁₁₈ , 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METROPOLITAN POLICE DEPT.

BLAKE SP. 8911 2000

DATE 4/27/76 - 5/27/76

The training program consisted of 30 hours of simulator operations and 20 hours of classroom time. The 20 hours of classroom time were made up of approximately 15 hours of support lectures for the simulator operations with approximately 4 hours allotted for supervised self-study.

Attention and Performance in Adult Trainees Participating

Ed. : 1952
Rev. : 1952

Shower Starting (The Shower, all Rods in, to 100% Power)

2-Stroke Pump Failure

Failure of Source Error Signal From ICE

Struck General, Had

Weighted Control Test

Full Power Range XI

Random Trip

Selected 2. Instrument Failure

Selected Instrument Failures

— **1990** —

Full Throttle - Spring Valve Open

TACSON CRACKER LEAD INSIDE ROCKET BUILDING

Summer Cool: the Look in London Cooler

© 2000 John Wiley & Sons, Inc.

5-2-63 LAKE 2-162 Director Building

File in Back Curio Room nearest building

2019-2020

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

Figure 6

... ..

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

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James E. Smith, Jr.
Lynchburg, Virginia

CONFIDENTIAL

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Babcock & Wilcox

Power Generation Group

P.O. Box 1260, Lynchburg, Va. 24505

Telephone: (804) 294-2511

July 13, 1977

Mr. Don Goodman
Group Supervisor - Nuclear & Technical Training
Metropolitan Edison Company
P.O. Box 480
Middletown, Pa 17057

Subject: Metropolitan Edison Company
Documentation -
B&W Ref. 601-8027-06

Dear Mr. Goodman:

The below listed personnel have completed a one-week operator training course on the Babcock & Wilcox Nuclear Power Plant Simulator:

L.O. Wright
~~M. J. Marshall~~
C.C. Faust

W.J. Marshall
F.J. Scheinman
B.A. Mehler

-----and no others-----

The attached Simulator Training Summary Sheet, for each individual, is forwarded for your information and training records.

Should you have any questions or require additional information, please advise.

Cordially,

THE BABCOCK & WILCOX COMPANY

Billy Wright
B. W. STREET, Lead Instructor
Nuclear Training Center

DS:jcs

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STIMULATOR TRAINING SUMMARY SHEET

June 27-July 1, 1977

Mr. W. H. Zappa has completed a one-week training program consisting of 40 hours of classroom time and 20 hours of simulator operations.

The time spent in the simulator consisted of performing the evolutions listed below with the remainder of the time devoted to manual and automatic ICS power operations.

Evolutions Performed	No. Performed
Dropped Rod	2
Stuck Rod	1
Reactor Trip	3
RC Pump Trip	1
Fail Selected T Instrument	1
Fail Selected TH Instrument	2
Fail Pressurizer Spray Valve	1
Reactor Coolant Leak Inside Containment Building	1
OTSG Tube Rupture	1
Fail Turbine Bypass Valve	1
Steam Leak Inside Containment Building	3
Fail Header Pressure Signal to ICS	1
Turbine Trip	1
Fail Feedwater Pump AP	2
Fail OTSG Startup Level to ICS	2
Fail OTSG Operate Level to ICS	4
Feedwater Pump Trip	1
Reactor Startup (Hot shutdown, all rods in, to 10 ⁻⁸ amps)	1
Reactor Startup (10 ⁻⁸ amps to 5% power)	1
Reactor Startup (5% power to 15% power)	1
Power Escalation (15% power to 100% power)	1
Plot 1/m	1
Failed Main Feed Valve 3 Open	2
Loss ICS Power	1
Fail MJ Control Valve	1

Instructor

15/77

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Babcock & Wilcox

Power Generation Group

P.O. Box 1760, Lynchburg, Va. 24503
Telephone: (804) 384-5111

February 1, 1978

Mr. Dick Zechman
Supervisor of Training
Metropolitan Edison Co.
P.O. Box 480
Middletown, Pa.

Subject: Metropolitan Edison Co.
Documentation - BGN Ref.
Sta. 601-8027-05-00

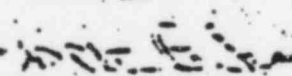
Dear Mr. Zechman:

The below listed individual has completed three (3) days of operational training on the Babcock & Wilcox Nuclear Power Plant Simulator:

~~W. A. Jones~~
The attached Simulator Training Summary Sheet is forwarded for your information and training records.

Should you have any questions or require additional information, please advise.

Sincerely,


WALTER E. JONES, Lead Instructor
Nuclear Training Center

KEP:jds

05796

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SIMULATOR TRAINING SUMMARY SHEET

January 23-25, 1973

Mr. W. A. Lewis, has completed three (3) days of a training program consisting of 12 hours of classroom time and 12 hours of simulator operations.

The time spent in the simulator consisted of performing the evolutions listed below with the remainder of the time devoted to manual and automatic ICS power operations.

Evolutions Performed	No. Performed
Motor Fault	1
Dropped Rod	1
Reactor Trip	1
Fail Selected TH Instrument	1
Fail RC Flow Signal to ICS	1
Reactor Coolant Leak Inside Containment Building	1
Steam Leak Outside Containment Building	1
Fail Header Pressure Signal to ICS	1
Turbine Trip	1
Fail Feedwater Pump 4P	1
Fail OTSG Operate Level to ICS	1
Feedwater Pump Trip	1
Degrade Feedwater Pump Shaft Speed Demand Signal	1
Load Rejection	1
Reactor Startup (Hot shutdown, all rods in, to 10 ⁻⁸ amps)	1
Reactor Startup (Hot shutdown, safety rods out, to 10 ⁻⁸ amps)	1
Reactor Startup (10 ⁻⁸ amps to 5% power)	1
Reactor Startup (5% power to 15% power)	1
Power Escalation (15% power to 100% power)	1
Dropped Group 1 Rods	1
Partial Tave to ICS	1
Ejected Rod with RC Leak	1

W. A. Lewis
Instructor, New Year Training Center

W. A. Lewis
Date

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H.J. (Harry) Hollister
 W.B. (Bill) Fells
 C.R. (Cory) Alden
 J.A. (John) Lind
 J.P. (Jim) Carson

REACTOR PHYSICS STUDENT UNION
 GROUP 1

Bill Rods

CLASS ROOM SCHEDULE

CONTROL ROOM SCHEDULE

Day No.	Day/Date	Time	Subject	Reference Instructor	Time	Operation	Reference Instructor
1	MONDAY 1/23/76	7:30 to 9:30 9:30 to 11:30	CAD REVIEW/DIAGNOSIS PANEL REVIEW SAFETY ANALYSIS	W.P. R.J. Schorcher	12:00 to 6:00	FLOODED PIPES STARTUP FROM ALL RCDs IN TO 1C01 REACTOR TRIP TURBINE TRIP	G.A.
2	TUESDAY 1/24/76	7:30 to 9:30 12:00 to 2:00	ICS REVIEW PUSH FULL PLANT CONTROL	G.A. Brian Bolano	9:30 to 11:30 2:00 to 4:00	LOAD REJECTION FIELD PIP TRIP - DIAGNOSIS START STOP STEAM LEAK CURSION R.B. CONTROL AND FEEDBACK MANIPULATIONS LOOP CHECK 1 E-35 BLEED 601 TOWER STEAM LEAK INSIDE R.B.	G.A. G.A.
3	WEDNESDAY 1/25/76	7:30 to 9:30 12:00 to 2:00	OTSG REVIEW ICS REVIEW	N.M. G.A.	9:30 to 11:30 2:00 to 4:00	REACTOR OCCUPANT PIP TRIP OTSG UNTIL FAILURES-FIELD PIP AP FAILURES TO INSTANT-FIELD RC SYSTEM FAILURE WITH FAILED PIPING PIP RCD REJECTION WITH RC LEAK	G.A. N.M.

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Babcock & Wilcox

Power Conversion Group

P.O. Box 1260, Lynchburg, Va. 24505
Telephone: (804) 384-5111

January 22, 1979

Mr. Dick Zachman
Supervisor of Training
Metropolitan Edison Co.
P.O. Box 480
Middletown, Pa.

Subject: Metropolitan Edison Company
Documentation - R&D Ref. No.
601-8027-09-00

Dear Dick:

The below listed personnel have completed a one week operator training course on the Babcock & Wilcox Nuclear Power Plant Simulator:

William Zeev
Dale L. Filsitz
James Masters
Stuart Brantley
David Mayhew
Michael Ross
and no others

The attached Simulator Training Summary Sheet, for each individual, is forwarded for your information and training records.

If you have any questions, please advise.

Sincerely,



JOHN A. LEO, Lead Instructor
Nuclear Training Center

JAL:jds

05/99

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SIMULATOR TRAINING SUMMARY SHEET

January 15-19, 1979

~~Mr. [Name]~~ has completed a one week training program consisting of 16 hours of classroom time and 20 hours of simulator operations.

The time spent in the simulator consisted of performing the evolutions listed below with the remainder of the time devoted to manual and automatic ICS power operations.

Evolutions Performed	No. Performed
Fail Makeup Pump	1
Defeat Neutron Error Signal from ICS	2
Motor Fault	1
Dropped Rod	1
Stuck Rod	2
Retarded Rod Motion	1
Fail Power Range HI	1
Reactor Trip	7
EC Pump Trip	2
Fail Selected TH Instrument	2
Fail Selected TC Instrument	2
Fail EC Flow Signal to ICS	2
Fail Pressurizer Spray Valve	3
Fail Pressurizer Level Signal	1
Reactor Coolant Leak Inside Containment Building	2
OTSG Tube Rupture	2
Steam Leak Outside Containment Building	2
Steam Leak Inside Containment Building	2
Turbine Trip	2
Fail Feedwater Pump AP	1
Fail OTSG Startup Level to ICS	1
Fail OTSG Operate Level to ICS	3
Condensate Pump Trip	1
Fail Feedwater Flow Signal to ICS	1
Feedwater Pump Trip	3
Load Rejection	3
Reactor Startup (Hot shutdown, all rods in, to 10^{-8} amps)	1
Reactor Startup (10^{-8} amps to 5% power)	1
Reactor Startup (5% power to 15% power)	1
Power Escalation (15% power to 100% power)	1
Plant Reduction (100% power to 15% Power)	1
10% Reactor Power Change with Reactor Control in Manual	3
Plant Temperature Change $\geq 30^{\circ}\text{F}$	1
Reactor Trip without Turbine Trip	2
Failed Tave to 570 in the ICS	2
Failed Main Feedwater Valve Open	1

(Continued)

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Page 2

Evolutions Performed	No. Performed
Failed "A" Steam Generator Pressure to ICS High	1
Failed "A" Main Feedwater Valve Closed	1
Decreased Condenser Vacuum	2
Failed Reactor Power to 60% in ICS	1
Feed Pump Trip with Neutron Error Defect in ICS	1
Dropped Rod Group 7 with Diamond in Manual	1
Ejected Rod Group 7	1
Loss of Both Feed Pumps	1
Failed Turbine Bypass Valve	1
Failed Header Pressure Signal to ICS	1
Degraded HP Heater	1
Reactor Startup (Hot shutdown, safety rods out, to 10^{-8} amps)	1

Therese A. Paul
Instructor, Nuclear Training Center

1/24/77
Date

105801

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CLASS ROOM SCHEDULE

J.A. (output) Hollister
 J.A. (input) Lind
 J.A. (off) Book
 J.A. (input) Ruppel
 J.A. (off) White

EXERCISE REQUALIFICATION TRAINING

EXERCISE

J.A. (off) Lind
 J.A. (input) Book
 J.A. (off) Ruppel
 J.A. (input) White

CLASS ROOM SCHEDULE

Day	Ref/Insg	Time	Subject	Reference Instructor	Time	Operation	Reference Instructor
1	MONDAY 1/15/76	0730 to 1400 1400 to 1600	CMD REVIEW/OPERATIONAL PROBLEMS INTEGRATED CONTROL SYSTEM	J.A. T.B.	0730 to 1130	REACTOR-STOP FROM ALL RECS IN TO N/20N 1-7 TURNING TO	T.B.
2	TUESDAY 1/16/76	0930 to 1130 1400 to 1600	CONTROL ROD DRIVES HEAT TRANSFER	J.A. T.B.	0930 to 0930 1200 to 1200	POWER OPERATIONS WITH UNANNOUNCED CASUALTIES POWER OPERATIONS WITH UNANNOUNCED CASUALTIES	T.B. A.W.
3	WEDNESDAY 1/17/76	0730 to 0930 1400 to 1600	OTSG REVIEW/TURBINE SHUTTERS TODIN BLOW, & ROD WITHDRAWAL LIMITS	H.B. V.B.	0930 to 1130 1400 to 1600	POWER OPERATIONS WITH UNANNOUNCED CASUALTIES HARD OPERATIONS WITH UNANNOUNCED CASUALTIES	J.A. J.A.
4	THURSDAY 1/18/76	0930 to 1130 1400 to 1600	POWER FULL ICS REVIEW/TRANSIENT RESPONSE	DEAN BELAND T.B.	0730 to 0930 1200 to 1400	POWER OPERATIONS WITH UNANNOUNCED CASUALTIES POWER OPERATIONS WITH UNANNOUNCED CASUALTIES	A.W. A.W.
5	FRIDAY 1/19/76	0930 to 1130 1400 to 1600	Continued Rod Withdrawal & Blow. REACTOR COLLAPSE ZONES	T.B. H.B.	0930 to 0930 1200 to 1200	POWER OPERATIONS WITH UNANNOUNCED CASUALTIES POWER OPERATIONS WITH UNANNOUNCED CASUALTIES	T.B. T.B.

METROPOLITAN EDISON COMPANY
 EASTON

BUREAU & WHEELER
 NUCLEAR TRAINING CENTER
 LONGSHORE, VIRGINIA

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