Electrician’s Mates (Nuclear) are involved in the supervision, operation, maintenance, and administration of naval nuclear propulsion plants and associated equipment. They have a thorough understanding of reactor, electrical and mechanical theory involved in the operation of the nuclear reactor, steam plant, propulsion plant and auxiliary equipment. They possess a detailed knowledge of reactor and steam plant chemistry and radiological controls. They operate and perform maintenance on power and distribution systems, lighting systems, motors and controllers, indication and alarm systems and other electrical and electronic equipment. They must be proficient at troubleshooting and testing electrical circuits. They take and analyze machinery vibration cuts of rotating electrical equipment.

<table>
<thead>
<tr>
<th>YEARS OF SERVICE</th>
<th>CAREER MILESTONES</th>
<th>AVERAGE TIME TO PROMOTE</th>
<th>COMMISSIONING OR OTHER SPECIAL PROGRAMS</th>
<th>SEA/SHORE FLOW</th>
<th>TYPICAL CAREER PATH DEVELOPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-13</td>
<td>EMN</td>
<td>12 Yrs</td>
<td>LDO</td>
<td>40</td>
<td>2nd Sea Tour Billet: Division LPO/Assistant LPO. Duty: SSN/SSBN/SSGN (N14S)/CVN (N24S). Qualification: NEC N14S/N24S, N32Z.</td>
</tr>
</tbody>
</table>
EMN CAREER PATH

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>EMN3 Accession Training</td>
<td>24 wks “A” School Completion</td>
<td>STA-21(N)</td>
<td>N/A</td>
<td>Recruit/Apprenticeship Training (up to 82 weeks)</td>
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<td>Duty: RTC/NFAS/NPS/NPTU. Some will have 24-month Junior Staff Instructor tour at NPTU.</td>
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<tr>
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<td></td>
<td></td>
<td>Qualification: NEC N91T.</td>
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</tbody>
</table>

Considerations for advancement from E6 to E7

1. Nuclear Field Quality Factors:
   a. Rarely detailed outside the nuclear community.
   b. Should demonstrate superior performance in Reactor and Engineering Department collateral duties.
   c. Shall not be considered for advancement to E-7 while participating in a commissioning program (STA-21 core/nuclear).

2. Surface Community (NEC N24S) Specific Quality Factors:
   a. One or more E-6 LPO tours are typical.
   b. Must be qualified (or previously qualified) Propulsion Plant Watch Supervisor (PPWS).

3. Submarine Community (NEC N14S) Specific Quality Factors:
   a. Must be qualified (or previously qualified) Engineering Watch Supervisor (EWS).
   b. E-6 LPO tour is not typical.
   c. E-6s should have served as a division’s “Leading First Class” or “Assistant LPO.”
   d. Some will qualify as Chief of the Watch (COW) and Diving Officer of the Watch (DOOW) (Pilot for VIRGINIA Class); however, nuclear-trained supervisors are often precluded from pursuing these qualifications. These non-nuclear submarine qualifications (COW, DOOW or Pilot) should not be considered as a prerequisite for selection.

4. Assignments (all):
   a. Sustained, superior performance at sea in a leadership role (LPO, Leading First, etc) should be factored into selection.
   b. Continued superior performance in a leadership role on shore duty (training, maintenance, and recruiting) is valued by the nuclear community.
   c. Variety of experience and success in various positions should be viewed as beneficial to our future leadership positions.
   d. Personnel assigned FDNF are specially screened and this should be viewed as arduous duty.
   e. Personnel assigned to Courier Position are specially screened, qualify as on-scene incident commander, and qualify as Federal Officers.

5. Job Description:
   a. Leading First: First Class Petty Officer in charge of first class and below personnel in the division. Equates to Leading Petty Officer on surface ships.
   b. Logroom Yeoman: Assistant to the Engineering Officer and Engineering Department Master Chief in the execution of the Engineering Department’s administrative processes. Solely responsible for the adequacy of the Engineering Department’s technical publication and qualification standards.

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c. Engineering Department Training Assistant: Most senior position by a First Class Petty Officer in Engineering Department and aids the Engineering Department Master Chief in day to day operations including the performance and grading of propulsion plant casualty control drills. This is the equivalent of the Reactor Training Leading Petty Officer on surface ships.

Considerations for advancement from E7 to E8

1. Nuclear Field Quality Factors:
   a. Rarely detailed outside the nuclear community.
   b. Must be qualified (or previously qualified) Propulsion Plant Watch Supervisor (PPWS) and/or Engineering Watch Supervisor (EWS).

2. Surface Community (NEC N24S) Specific Quality Factors:
   a. Few will qualify as Propulsion Plant Watch Officer (PPWO). PPWO, normally stood by an Officer, requires significant leadership ability and in-depth understanding of reactor plant operations. Only the best complete this qualification.
   b. Will normally have served as a Divisional CPO or LCPO.

3. Submarine Community (NEC N14S) Specific Quality Factors:
   a. One E-7 Leading Chief Petty Officer (LCPO) tour is typical.
   b. Must hold a secondary NEC of N32Z (qualified as EDMC). Gaining the SNEC N32Z early in a career shows a strong desire to serve as an EDMC, which is the primary billet for NEC N14S E-8s.
   c. Some will qualify as Chief of the Watch (COW) and Diving Officer of the Watch (DOOW) (Pilot for VIRGINIA Class); however, nuclear-trained supervisors are often precluded from pursuing these qualifications. These non-nuclear submarine qualifications (COW, DOOW or Pilot) should not be considered as a prerequisite for selection.

4. Assignments (all):
   a. Sustained, superior performance at sea in a leadership role should be factored into selection.
   b. Continued superior performance in a leadership role on shore duty (training, staff, maintenance, and recruiting) is valued by the nuclear community.
   c. Variety of experience and success in various positions should be viewed as beneficial to our future leadership positions.
   d. Personnel assigned FDNF are specialty screened and this should be viewed as arduous duty.

5. Job Description:
   a. Leading Petty Officer: Equivalent to Leading Chief Petty Officer on surface ships.
Considerations for advancement from E8 to E9

1. Nuclear Field Quality Factors:
   a. Rarely detailed outside the nuclear community.
   b. Must be qualified (or previously qualified) Propulsion Plant Watch Supervisor (PPWS) and/or Engineering Watch Supervisor (EWS).

2. Surface Community (NEC N24S) Specific Quality Factors:
   a. Few will qualify as Propulsion Plant Watch Officer (PPWO). PPWO, normally stood by an Officer, requires significant leadership ability and in-depth understanding of reactor plant operations. Only the best complete this qualification.
   b. Must have served or be currently serving as a Divisional Leading Chief Petty Officer (LCPO) of a nuclear division (Reactor Electrical or Reactor Networks) or the Reactor Training Division Officer at sea.
   c. In lieu of serving as a divisional LCPO, may have served or currently be serving as the Leading Crew Chief (LCC) or Staff Training Group (STG) LCPO of a prototype. E8s who are serving or have served, as RDMC in lieu of Division LCPO are eligible for advancement to E9.
   d. Must hold a secondary NEC of N31Z (qualified as RDMC). Gaining the SNEC N31Z demonstrates a strong desire to serve as RDMC, this is the premier billet for NEC N24S E-9s.

3. Submarine Community (NEC N14S) Specific Quality Factors:
   a. Must hold a secondary NEC of N32Z (qualified as EDMC) and have served (or currently be serving) as an Engineering Department Master Chief (EDMC).
   b. Some will qualify as Chief of the Watch (COW) and Diving Officer of the Watch (DOOW) (Pilot for VIRGINIA Class); however, nuclear-trained supervisors are often precluded from pursuing these qualifications. These non-nuclear submarine qualifications (COW, DOOW or Pilot) should not be considered as a prerequisite for selection.

4. Assignments (all):
   a. Sustained, superior performance (as measured by success of crew and ship) at sea in a leadership role should be factored into selection.
   b. Continued superior performance (as measured by success of crew and unit) in a leadership role on shore duty (training, staff, maintenance, and recruiting) is valued by the nuclear community.
   c. Variety of experience and success in various positions should be viewed as beneficial to our future leadership positions.
   d. Personnel assigned FDNF are specialty screened and this should be viewed as arduous duty.

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