**1bi: Detailed List (Precise, Technical, Formal)**

**1. Plan Execution Sequence**

1. h1 (Human Electrician): This agent executes two sequential Electrical installation (t2) tasks (ip2, ip1) at its starting location, Room H. It then performs a movement to Room D for Plumbing installation (t3\_bza), followed by a final move to Room E for the second Plumbing installation (t3\_bzb).
2. r1 (Robot 1): Moves from Room B to Room F to execute the Foundation preparation (t1\_msa) task.
3. r2 (Robot 2): Moves from Room C to Room G to execute the Foundation preparation (t1\_msb) task.
4. r3 (Robot 3): Commences with Finishing work (t4\_se1) at Room J, performs an inter-room movement via Room G, and completes the plan by executing the final Finishing work (t4\_wcp1) at Room I.

**2. Pareto Front Explanation**

1. The Pareto front is the boundary of all non-dominated Quality of Service (QoS) solutions in the objective space defined by Mission Success Probability (maximization) and Total Cost (minimization). A solution is considered Pareto optimal if no alternative solution exists that is better in both objectives. The curve effectively quantifies the inherent trade-off between the cost of risk mitigation (retry allocation) and the resulting probability of mission success.

**3. Optimal Solution for Minimum P ≥ 0.92**

1. The system selected Solution ID 7 as the most efficient configuration to satisfy the minimum probability constraint of 0.92.
2. Key QoS Metrics: This solution delivers a Mission Success Probability of 0.921 at a Total Cost of 48.732 units.
3. Retry Allocation Strategy: The probability is achieved by selective retry assignments based on task criticality:
4. t4\_wcp1 (Finishing work) by r3: 5 retries (maximum allowed)
5. t1\_msa (Foundation preparation) by r1: 3 retries
6. t1\_msb (Foundation preparation) by r2: 3 retries