**Nocturnal Finance Test Plan Summary**

**Test 1: Create and Verify an “Above” Limit Order**

1) Create order

2) Verify NoctStaking.sol address ETH balance

3) Observe event and record new order address

4) Verify new order attributes

5) Verify order address token balance

6) Perform necessary pool swaps to raise pool price above order swap limit

7) Settle order

8) Verify settler address ETH balance

9) Verify settler, creator, and treasury NOCT balance

10) Verify order address token balance

11) Close order

12) Observe event and verify closed order address

13) Verify order owner token balance

**Test 2: Create and Verify a “Below” Limit Order**

1) Create order

2) Verify NoctStaking.sol address ETH balance

3) Observe event and record new order address

4) Verify new order attributes

5) Verify order address token balance

6) Perform necessary pool swaps to drop pool price below order swap limit

7) Settle order

8) Verify settler address ETH balance

9) Verify settler, creator, and treasury NOCT balance

10) Verify order address token balance

11) Close order

12) Observe event and verify closed order address

13) Verify order owner token balance

**Test 3: Verify Early Order Closure**

1) Create order

2) Verify NoctStaking.sol address ETH balance

3) Observe event and record new order address

4) Verify new order attributes

5) Verity order address token balance

6) Close order

7) Observe event and verify closed order address

8) Verify order owner token balance

**Test 4: Verify Staker Rewards Balance**

1) Stake NOCT

2) Verify staker address ETH rewards balance

3) Repeat Test 1 or Test 2

3) Verify staker address ETH rewards balance

**Test 5: Verify Order Owner Transfer**

1) Create order

2) Verify NoctStaking.sol address ETH balance

3) Observe event and record new order address

4) Verify new order attributes

5) Verify order address token balance

6) Transfer order to new owner

7) Verify new owner

8) Perform necessary pool swaps to raise pool price below order swap limit

9) Settle order

10) Verify settler address ETH balance

11) Verify settler, creator, and treasury NOCT balance

12) Verify order address token balance

13) Close order

14) Observe event and verify closed order address

15) Verify order owner token balance