WHAT IS CLAIMED IS:

1. An electro/hydraulic valve for use in a hydrocarbon production well, comprising:

a fluid chamber, the fluid chamber configured to collect fluid leakage from a hydraulically controlled actuation member of a subsurface safety valve; and

an electro/mechanical pump having a fluid inlet and a fluid outlet, and further wherein an inlet check valve is positioned in fluid communication between the fluid chamber and the fluid inlet and an outlet check valve is positioned in fluid communication between the fluid outlet and the hydraulically controlled actuation member.

2. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is a ball screw pump.

3. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is a solenoid pump.

4. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is a series of solenoid pumps daisy chained together.

5. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is an electromagnet actuator pump.

6. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is a gear pump.

7. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is a swash plate piston pump.

8. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is a screw pump.

9. The electro/hydraulic valve as recited in Claim 1, wherein the electro/mechanical pump is a first electro/mechanical pump having a first fluid inlet and a first fluid outlet, and further including a second electro/mechanical pump having a second fluid inlet and a second fluid outlet, and further wherein a second inlet check valve is positioned in fluid communication between the fluid chamber and the second fluid inlet and a second outlet check valve is positioned in fluid communication between the second fluid outlet and the hydraulically controlled actuation member.

10. The electro/hydraulic valve as recited in Claim 1, wherein the fluid chamber is a first fluid chamber and further including a second fluid chamber fluidly coupled to the first fluid chamber as part of a closed loop system, and further wherein the electro/mechanical pump is a first electro/mechanical pump having a first fluid inlet and a first fluid outlet, and further including a second electro/mechanical pump having a second fluid inlet and a second fluid outlet, and further wherein a second inlet check valve is positioned in fluid communication between the second fluid chamber and the second fluid inlet and a second outlet check valve is positioned in fluid communication between the second fluid outlet and the hydraulically controlled actuation member.

11. The electro/hydraulic valve as recited in Claim 1, further including a relief valve positioned in fluid communication between the outlet check valve and the hydraulically controlled actuation member.

12. The electro/hydraulic valve as recited in Claim 11, wherein the relief valve is configured to close when supplied power.

13. The electro/hydraulic valve as recited in Claim 1, wherein the hydraulically controlled actuation member is a piston.

14. An electrically surface-controlled subsurface safety valve, comprising:

an outer housing comprising a central bore extending axially through the outer housing, the central bore operable to convey subsurface production fluids there through;

a valve closure mechanism disposed proximate a downhole end of the central bore;

a bore flow management actuator disposed in the central bore;

a piston coupled to the bore flow management actuator, the piston operable to move the bore flow management actuator between a closed state and a flow state to engage or disengage the valve closure mechanism to determine a flow condition of the subsurface production fluids through the central bore; and

an electro/hydraulic valve fluidly coupled to the piston for movement thereof, the electro/hydraulic valve including;

a fluid chamber, the fluid chamber configured to collect fluid leakage from the piston; and

an electro/mechanical pump having a fluid inlet and a fluid outlet, and further wherein an inlet check valve is positioned in fluid communication between the fluid chamber and the

fluid inlet and an outlet check valve is positioned in fluid communication between the fluid outlet and the piston.

15. The electrically surface-controlled subsurface safety valve as recited in Claim 14, wherein the electro/mechanical pump is a ball screw pump, a solenoid pump, a series of solenoid pumps daisy chained together, an electromagnet actuator pump, a gear pump, a swash plate piston pump, or a screw pump.

16. The electrically surface-controlled subsurface safety valve as recited in Claim 14, wherein the electro/mechanical pump is a first electro/mechanical pump having a first fluid inlet and a first fluid outlet, and further including a second electro/mechanical pump having a second fluid inlet and a second fluid outlet, and further wherein a second inlet check valve is positioned in fluid communication between the fluid chamber and the second fluid inlet and a second outlet check valve is positioned in fluid communication between the second fluid outlet and the piston.

17. The electrically surface-controlled subsurface safety valve as recited in Claim 14, wherein the fluid chamber is a first fluid chamber and further including a second fluid chamber fluidly coupled to the first fluid chamber as part of a closed loop system, and further wherein the electro/mechanical pump is a first electro/mechanical pump having a first fluid inlet and a first fluid outlet, and further including a second electro/mechanical pump having a second fluid inlet and a second fluid outlet, and further wherein a second inlet check valve is positioned in fluid communication between the second fluid chamber and the second fluid inlet and a second outlet check valve is positioned in fluid communication between the second fluid outlet and the piston.

18. The electrically surface-controlled subsurface safety valve as recited in Claim 14, further including a relief valve configured to close when supplied power positioned in fluid communication between the outlet check valve and the piston.

19. A method of operating an electrically surface-controlled subsurface safety valve, comprising:

providing an electrically surface-controlled subsurface safety valve downhole within a wellbore, the electrically surface-controlled subsurface safety valve including;

an outer housing comprising a central bore extending axially through the outer housing, the central bore operable to convey subsurface production fluids there through;

a valve closure mechanism disposed proximate a downhole end of the central bore;

a bore flow management actuator disposed in the central bore;

a piston coupled to the bore flow management actuator, the piston operable to move the bore flow management actuator between a closed state and a flow state to engage or disengage the valve closure mechanism to determine a flow condition of the subsurface production fluids through the central bore; and

an electro/hydraulic valve fluidly coupled to the piston for movement thereof, the electro/hydraulic valve including;

a fluid chamber, the fluid chamber configured to collect fluid leakage from the piston; and

an electro/mechanical pump having a fluid inlet and a fluid outlet, and further wherein an inlet check valve is positioned in fluid communication between the fluid chamber and the fluid inlet and an outlet check valve is positioned in fluid communication between the fluid outlet and the piston; and

sending power to the electro/mechanical pump to axially urge the piston downhole to move the bore flow management actuator toward the flow state.

20. The method as recited in Claim 19, wherein the electro/mechanical pump is a ball screw pump, a solenoid pump, a series of solenoid pumps daisy chained together, an electromagnet actuator pump, a gear pump, a swash plate piston pump, or a screw pump.

21. The method as recited in Claim 19, further including a relief valve configured to close when supplied power positioned in fluid communication between the outlet check valve and a hydraulically controlled actuation member, the power to close relief valve configured to relieve pressure on the piston if power is lost to the power to close relief valve, and thus allow the bore flow management actuator to return to the closed state if power is lost to the power to close relief valve.