8:30am Convene

1) Introduction Session:

   Introduction of participants

   Previous HMW Workshops & Workshop Goals and Key Questions – Al Hefner

   DOE EERE Needs for Program Planning – Anant Agarwal/ Ziaur Rahman

   ABB – Applications of High-RPM DD Motors in COG Industries (NG, LNG) – Waqas Arshad

   GE OG – Applications for High-Speed Motors in Oil and Gas Industries – Ravi Raju

   Break 10-10:30am

2) Panel: Integration of Mechanical and Drive Technology for High-Speed Motors (Tom Lipo):

   ABB/Baldor – Motor mechanical/drive system integration – Steve Englebretson

   UTK – Benefits of high-speed SiC drives for integrated direct-drive motor system – Leon Tolbert and Fred Wang

   GE Electrical Machines – Integration of SiC power devices into high-power motor drives – Ayman EL-Refaie

   Teco Westinghouse – High-Speed direct-drive motors enabled by SiC power devices – Paulo Guedes-Pinto

   LUNCH 12:00-1pm

   Panel discussion period
3) Panel: WBG Devices Cost and Development Roadmap (Leo Casey):

Cree – Power products roadmap plans for commercialization of SiC power switches and power diodes from 2012-2020 – Jeff Casady

Cree – Power products reliability data and pricing forecasts for power module, power MOSFET and power diode products from 650V to 15kV. – John Palmour

United SiC – Economic viability of SiC power commercial foundry approach – Anup Bhalla

Monolith – Foundry process integration and product roadmap and cost projections for 1200V/1700V devices – Sujit Banerjee

APEI – Manufacturing low cost SiC module packages – Kraig Olejniczak

Break 3:00 -3:30pm

Panel discussion period

4) Panel: Advanced motor and drive technology (Ravi Raju):

PNNL – Magnetic Materials for Motors – Jun Cui

NCSU – High-voltage, high-frequency SiC power electronics – Subhashish Bhattacharya

Panel discussion period

5pm Adjournment