LOG OF MEETING
DIRECTORATE FOR ENGINEERING SCIENCES

SUBJECT: IEEE P1725 Working Group - Standard for Rechargeable Batteries for Cellular
             Telephones

DATE OF MEETING: January 25-27, 2004

PLACE OF MEETING: Holiday Inn, Richardson, TX

LOG ENTRY SOURCE: Doug Lee, ESEE

DATE OF LOG ENTRY: February 15, 2005

COMMISSION ATTENDEES: Doug Lee, ESEE

NON-COMMISSION ATTENDEES:
        IEEE P1725 Working Group members and guests – see attached attendee roster

SUMMARY OF MEETING:

Mr. Lee attended the third IEEE P1725 working group meeting to discuss proposed requirements
for a new standard for rechargeable batteries for cellular telephones. The P1725 Working Group
is using the recently published IEEE Std 1625™ - 2004, *IEEE Standard for Rechargeable
Batteries for Portable Computing* as a template to draft the *IEEE Standard for Rechargeable
Batteries for Cellular Telephones.*

Most of the three day meeting involved breaking into the four subgroups and working on
requirements assigned to each group. The four subgroups are: Accessories, Host and Pack, Cell,
and System. Mr. Lee attended and participated in the system subgroup.

Some of the highlights of the working group meetings are:
- Processes that will improve reliability/safety have been identified and are being proposed
  for inclusion in the standard.
- Safety standards (UL, IEC, UN) for components (chargers, batteries, etc.) are being
  proposed as requirements of this standard and not just listed in the appendices.
- Security devices and measures are being proposed to reduce or eliminate incompatible
  and/or counterfeit components (chargers and battery packs) being used with
  manufacturers' phones.
- The working group is proposing more "shall" requirements as opposed to "should"
  recommendations that are in the portable computing battery standard.

The attendee roster and unofficial minutes of the meeting are appended to the meeting log.

IEEE P1725 Working Group
January 25-27, 2005
Holiday Inn Select, Richardson, Texas
Unapproved Meeting Minutes

1. Call to Order
Called to order by Jason Howard, Chair, at 9 AM CST on 25 January 2005.
Introductions were made. Sign-in sheet was circulated. Attendance Roster:

Name	Company
Khalil Amine	Argonne National Lab
Ralph Brodd	Broddarp
Mike Zhang	BYD
Xiao Feng	BYD
John Zhang	Celgard
Bob Eagle	E7 Technologies
Jan C Swart	Exponent Failure Analysis Associates
Mike Edwards	HP
Noell Humenick	IEEE Standards
Michael L Coletta	Intersil
Eddie Forouzan	Kyocera
Eun-Young Oh	LG Chem
Gerry Shin	LG Chem
George Thomas	Lishen
Carl T Seaberg	Motorola
Micheal Austin	Motorola
Jason N Howard	Motorola
John Copeland	Motorola
John Dunne	Motorola
Russell Gyenes	Motorola
Wayne A Penney	Motorola
Kazu Yamamoto	NEC Tokin
Tetsuo Shirasu	NEC Tokin
Khaled Azem	Nextel
Steve Dennett	Nextel
JT Guerin	Nokia
Markus Aaltonen	Nokia
Markku Rajamaki	Nokia
Charles P Monahan	Panasonic
Joji Nishimura	Panasonic
Shinichi Ito	Panasonic
Masunori Hamaguchi	Panasonic
Dante De Guzman	Phihong
Mark Benton	Qualcomm
Hisashi Tsukamoto	Quallion LLC
Paul M. Beach	Quallion LLC
Pat Loehr	Radio Shack
Johnny Lam	Raychem Circuit Protection
Martin G Guthrie	RIM
Gordon J Malterud	Samsung Telecommunications America
Joe Decarlo	Sanyo Energy
Hidenori Tsuda	Sanyo Energy
Larry Allen	Sanyo Energy
Joseph A Carcone	Sanyo Energy Corp.
Nolan Ikegami	Sanyo Energy USA
Toru Amazutsumi	Sanyo Mobile Energy Company
Gary T Schick	Sprint
Harry Mkhitarian	Superior Communication
Todd Vanyo	Texas Instruments
Upal Sengupta	Texas Instruments
Michael Dore	U.S. Cellular
Doug Lee	U.S. Consumer Product Safety Commission
Daniel McGuire	UTStarcom/Audiovox
Jim Papadopoulos	UTStarcom/Audiovox
Martin Krebs	Varta Microbattery
George Zysman	Verizon Wireless

2. Approval of Agenda

Meeting agenda was presented.

3. Call for Patents
IEEE Patent slides were read and presented to the team by Jason Howard. The patent slides can be found at the IEEE-SA PatCom website and are also added as an attachment to the e-mail message containing this document.

- Jason Howard advised participants to contact IEEE Patent Committee Administrator (Dave Ringle, d.ringle@ieee.org) with any patent disclosures.
- Jason Howard reminded participants of antitrust obligations and reviewed topics, which are not appropriate for discussion.

4 Approval of Meeting Minutes
A motion was made by Lou LaMedica (Verizon) and was seconded by George Zysman (Verizon) to approve the IEEE P1725's second meeting minutes (San Diego Dec. 13-14). The motion was unanimously approved.

5. Status update on Meeting Fees collection by IEEE-SA
Payment received from only one entity, members are encouraged to contact their organization to follow up on timely payment. Entities are reminded that payment of fees is a necessary component of voting membership.

6. Introduction to and presentation by IEEE Project Manager
Introduced Noelle Humenick, IEEE P1725 Project Manager, IEEE-SA. Reviewed IEEE standards process: Key points are
- IEEE standards process is a quasi legal process and 5 imperative principles. They are:
  - Due process
  - Openness
  - Consensus, 75% approval by 75% of voting members for sponsor ballot
  - Balance
  - Right of Appeal

7. Day 1 afternoon, and Day 2, Technical Subcommittees meetings

Subcommittee meetings continued all day Tuesday. Four subcommittees (System/User and Security, Accessories, Pack, Cell) held full day sessions.

8. Day 3, Meeting Wrap Up

Jason Howard gave some general updates.
- Technical editor was tentatively announced as Ralph Brodd. His contract is being finalized.

- Entities were reminded to follow up on payment to the IEEE.
- Subcommittee chairs were asked to e-mail the list of subcommittee members who attended subcommittee discussions.

9. Report out from Subcommittees
Subcommittee Leads provided updates in the following order:
- System/User and Security: (JT Guerin/Nokia)
- Accessories: (John Copeland/Motorola)
- Host & Pack: (Mike Coletta/Intersil)
- Cell: (Jason Howard on behalf of Joe Carcone/Sanyo)

9. Schedule
The schedule for the project was reviewed by Jason Howard.

9a. Next steps
All members were informed of schedule for next steps
- Draft texts and form 8 due to Secretary (eddief@kyocera-wireless.com) by Feb 11.
- 1st draft will be circulated to the sub committees by Feb 27th.
- March 16th is the deadline for the Secretary to receive comments via form 8.
- A collection of all comments will be circulated to all entities 1 week prior to the meeting at Kyocera in San Diego, at which time, Draft 1 and all comments will be reviewed for resolution at that meeting.

9b Schedule of Major Milestones
The group discussed major milestones of the schedule.
- Confirmed: March 29 - 31 – San Diego (Kyocera), review draft 1
- TBD: Verizon or Motorola: Week of May 9, review draft 2
- TBD: Verizon or Motorola: Week of June 6, review final draft
- Ballot process
- Ballot resolution
- Standards Association Standards Board approval process, Jan 2006
- Published Feb. 2006

10. New Business
None

11. Next Meeting
- Next meeting at Kyocera on March 29-31 in San Diego, CA
- Verizon and Motorola will host the May and June meetings. The order has not been determined and will be discussed during the 4th meeting in San Diego.

12. Adjournment
The meeting adjourned at 11:30 am on 27 January 2005.