

TSGRAN WG2#3
Yokohama, Japan
April 13-16, 1999

TSGR#3(99)223

TSG RAN WG1#3
Stockholm, Sweden
March 22-26, 1999

TSGR#3(99)320

Agenda item: ?
Source: TSG RAN WG1
To: TSG RAN WG2
Title: Response to the Liaison letter from WG2 (TSGR2-#99-186) on the CPCH concept
Document for: Approval

WG1 received the letter, which expresses the views and recommendations of WG2 regarding the CPCH concept.

WG1 recognizes the benefits of applying closed loop power control and collision detection resolution to high data rate and long payload message transmissions for the CPCH concept.

The CPCH concept which incorporated a dedicated downlink power control channel for the purpose of fast Closed Loop Power Control, L1 Acknowledgement (similar to the current RACH scheme) and L1 Collision Resolution mechanisms, was presented. The concept was reviewed and analyzed by the participants of the Ad-Hoc 14. After extensive deliberation and clarification of the underlying concepts within the CPCH approach, it was recognized that the CPCH concept is very interesting and promising. No immediate flaws were recognized by WG1. It is also agreed that the CPCH concept requires additional details for further evaluation.

It is recognized that the CPCH concept is similar to the RACH concept with additional capabilities

It is recognized that Closed Loop Power Control is beneficial for the CPCH (as an extension of RACH) for longer payload durations and high data rates. (Data rates and Duration breakpoints are for FFS)

It is recognized that a fast collision detection mechanism is beneficial for the operation of the CPCH.

WG1 will continue on the studies of the CPCH concept. WG1 will inform WG2 of the developments.

At this stage, WG1 cannot provide the final answer on all the details of the CPCH concept L1 feasibility.