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| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Communicator Self-contained Limited range transmission Voice operated Signal penetration | | |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) At the request of the U.S. Geological Survey, the feasibility of equipping workers with a two-way communications system built into a construction hard hat for use in an extremely high ambient noise level has been investigated. As a result, several systems were tested on an offshore oil platform in the Gulf of Mexico. The investigation indicates that a simple modification of a commercial low-power, frequency modulated system operating in the 49-MHz public service band could be used to considerable ad- | | |

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