

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, FLORIDA

JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION FOR A
PORTION OF THE CONTRACT ACTION

(BRAND NAME DETERMINATION)

ESTIMATED ITEM VALUE: \$994.00 per case

ESTIMATED TOTAL VALUE OF PROCUREMENT: \$39,760.00

- 1.) Based on the justification provided herein, I recommend that an acquisition be made by other than full and open competition for a portion of the contract action described below:
- 2.) This contract action includes the acquisition of 40 cases (25 cartridges/case) of HIT RE-500-SD Adhesive Concrete Anchor System manufactured by Hilti Corporation. This adhesive concrete anchor system will be used in construction of the Reinforce Catacomb Roof systems at LC 39 Pad B Kennedy Space Center.
- 3.) The Existing Catacomb Roof of the Launch Complex 39B (LC-39B) Pad Structure which supports the crawler way is not capable of supporting the Space Launch System (SLS) maximum vehicle loading condition. As result, structural reinforcement of the catacomb roof is required to support this new heavier load. To achieve the required reinforcement, a new cast in place steel reinforced concrete beam will be bonded to the existing catacomb roof utilizing the Hilti HIT RE-500-SD Adhesive Concrete Anchor System. The total estimated value is \$994.0 per case. There are forty (40) cases needed for this contract action for a total cost of \$39,760.00.
- 4.) Contracting without full and open competition is permitted pursuant to 10 U.S.C. 2304 (c) (1) because the equipment required by KSC is only available from one source and no other type of equipment will fully satisfy the requirements. There is a reasonable basis to conclude that KSC's minimum requirements can only be satisfied by the unique equipment available from Hilti. The Hilti HIT RE-500-SD Adhesive Concrete Anchor System represents the only known system capable of meeting all of KSC's requirements as described below:
 - a. The Hilti HIT RE-500-SD Adhesive Concrete Anchor System is suitable for cracked or un-cracked concrete of the 1963 built concrete catacomb roof and it meets the design specified requirement for deeper embedment (14") and higher concrete/bond failure load capacity that other products and manufactures do not have.
 - b. The Hilti HIT RE-500-SD Adhesive Concrete Anchor System is suitable for overhead installation, for cyclic load (SLS launch pad environment) and meets ACI 318-11 requirement. This adhesive anchor has been used at

KSC LC 39 launch pad over 20 years, with high quality and successful installation. This specific adhesive anchor is fully reported by ICC-ES (International Code Council Evaluation Service) (ref. ICC-ES Evaluation report 2322).

- c. If this product is not used, the engineered technical requirements will not be met.
 - d. The Hiliti HIT RE-500-SD Adhesive Concrete Anchor System is essential to the Government's requirements, thereby precluding consideration of a product manufactured by another company.
- 5.) The government utilized these adhesive anchor system during the Space Shuttle Program at the launch pads and they have proven capable of meeting all of the government's requirements including performance and environmental compatibility.
- 6.) Efforts will be made to ensure that offers are solicited from as many potential sources as practicable. Additionally, this Brand Name Determination will be posted with the solicitation on the Federal Business Opportunities website www.fbo.gov.
- 7.) It is determined that the price of the prime contract, including the Hilti HIT RE-500-SD adhesive anchor system, will be fair and reasonable. The overall competitive nature of this low price technically acceptable procurement will entice bidders to seek the most advantageous pricing from Hilti authorized distributors and supply houses as well as reasonable pricing from all other equipment and material suppliers.
- 8.) Future actions to remove barriers to competition will include continued efforts to reach out to other manufacturers for adhesive anchor systems in order to reduce the amount of equipment that must be procured on a single manufacturer basis.

Pursuant to FAR 6.303-2(c), I hereby certify that the supporting data furnished in support of contracting by other than full and open competition, under 10 U.S.C. 2304(c) (1), with Hilti for the purchase of 40 cases of HIT RE-500-SD adhesive anchor is complete and accurate to the best of my knowledge and belief.



Michael Le
On behalf of the Facility Construction Branch
NE-F2



Randall A. Gumke
Contracting Officer
OP-ES