

INDIANA DEPARTMENT OF TRANSPORTATION



INTER-DEPARTMENT COMMUNICATION

Standards Section – Room N642



*Writer's Direct Line
232-6775*

June 13 , 2005

DESIGN MEMORANDUM No. 05-17
TECHNICAL ADVISORY

TO: All Design, Operations, District Personnel, and Consultants

FROM: /s/ Dannie L. Smith
for Anthony L. Uremovich
Design Policy Engineer
Contracts and Construction Division

SUBJECT: Impact Attenuator Spare Parts Packages

EFFECTIVE: January 18, 2006 Letting

If impact attenuators are required, the designer should contact the appropriate district operations engineer regarding the number of each type and stage of spare parts packages desired. The district operations engineer will provide the number of each required, along with the delivery location. Only one delivery address will be allowed per contract. Recurring Special Provision 601-R-497, Spare Parts Package for Impact Attenuators, should be modified to incorporate this information and included in the contract documents. Copies of the revised 601-R-497 and the spare parts lists are attached for your information.

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Attachments

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SPARE PARTS PACKAGE FOR IMPACT ATTENUATORS

The Standard Specifications are revised as follows:

SECTION 601, BEGIN LINE 188, DELETE AND INSERT AS FOLLOWS:

~~If a spare parts package is required for the unit being installed, such package shall consist of those parts which are shown on the list provided by the manufacturer. The spare parts shall correspond to those shown on the list for the unit to be placed. The package shall be delivered to the location directed and will become the property of the Department.~~

_____ stage 1 spare parts package(s) and _____ stage 2 spare parts package(s) shall be supplied for each type of impact attenuator being installed. The spare parts package shall consist of those parts which are shown on the replacement parts list shown in the Contract Information Book. The spare parts package(s) shall be delivered to the following location.

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Spare Parts Packages for INDOT Approved Impact Attenuators

May, 2005

Unit	Type	Manufacturer	Stage 1 Spare Parts Package			Stage 2 Spare Parts Package		
			Option	Qty	Item	Option	Qty	Item
QUADGUARD	Impact Attenuator	Energy Absorption Systems, Inc.	QUADGUARD TL 3 (ED, R1, R2, SD, W1)	2	Fender Panel	QUADGUARD TL 3 (ED, R1, R2, SD, W1)	2	Fender Panel
				1*	Diaphragm*		1*	Diaphragm*
				2	Mushroom Washer Assembly		4	Mushroom Washer Assembly
				1	Nose Assembly		1	Nose Assembly
				4	Energy Absortion Cartridge Type 1		4	Energy Absortion Cartridge Type 1
							3	Energy Absortion Cartridge Type 2
QUADGUARD	Impact Attenuator	Energy Absorption Systems, Inc.	QUADGUARD TL 2 (ED, R1, R2, SD, W1)	2	Fender Panel	QUADGUARD TL 2 (ED, R1, R2, SD, W1)	2	Fender Panel
				1*	Diaphragm*		1*	Diaphragm*
				2	Mushroom Washer Assembly		4	Mushroom Washer Assembly
				1	Nose Assembly		1	Nose Assembly
				3	Energy Absortion Cartridge Type 1		3	Energy Absortion Cartridge Type 1
							1	Energy Absortion Cartridge Type 2
QUADGUARD	Impact Attenuator	Energy Absorption Systems, Inc.	(LS) QUADGUARD W1	2	Fender Panel	(LS) QUADGUARD W1	2	Fender Panel
				1	Diaphragm		1	Diaphragm
				2	Mushroom Washer Assembly		2	Mushroom Washer Assembly
				1	Nose Assembly		1	Nose Assembly
				2	Energy Absortion Cartridge Type 1		2	Energy Absortion Cartridge Type 1
							1	Energy Absortion Cartridge Type 2
TAU II	Impact Attenuator	Barrier Systems, Inc.	TAU II TL 3 (ED, R1, R2, SD, W1)	2	Slider Panel	TAU II TL 3 (ED, R1, R2, SD, W1)	2	Slider Panel
				1*	Mid Support Diaphragm*		1*	Mid Support Diaphragm*
				2	Slider Bolt Assembly		4	Slider Bolt Assembly
				3	Energy Absortion Cartridge Type A		2	Pipe Panel Mount
				1	Energy Absortion Cartridge Type B		3	Energy Absortion Cartridge Type A
							5	Energy Absortion Cartridge Type B
TAU II	Impact Attenuator	Barrier Systems, Inc.	TAU II TL 2 (ED, R1, R2, SD, W1)	2	Slider Panel	TAU II TL 2 (ED, R1, R2, SD, W1)	2	Slider Panel
				1*	Mid Support Diaphragm*		1*	Mid Support Diaphragm*
				2	Slider Bolt Assembly		4	Slider Bolt Assembly
				1	Energy Absortion Cartridge Type A		2	Pipe Panel Mount
				1	Energy Absortion Cartridge Type B		1	Energy Absortion Cartridge Type A
							3	Energy Absortion Cartridge Type B

Note: Spare parts packages are to include all associated hardware with the specified items.
A Stage 1 Spare Parts Package includes parts to repair a minor hit.
A Stage 2 Spare Parts Package includes parts to repair a 100% design hit.
*** For W2 and W3 units, substitute 2 wide diaphragms - for bays 1 and 2.**

Note: Spare parts packages are to include all associated hardware with the specified items.
A Stage 1 Spare Parts Package includes parts to repair a minor hit.
A Stage 2 Spare Parts Package includes parts to repair a 100% design hit.
*** For W2 and W3 units:**

- Substitute 2 wide diaphragms for bays 1 and 2.
- Include all Type A Cartridges for Stage 1.
- Include all Type A and B Cartridges for Stage 2.

No Spare Parts Package is required for Impact Attenuators Type CR