ECR #: 1
Title: Meaning of "0" for RQ_DEPTH Command and Status Register.
Release Date: Nov. 15, 1996
Impact: Clarification
Spec Version: A.G.P. 1.0

Summary:

The AGP command register, RQ_DEPTH field is unclear as to the meaning of "0" in this register.

Background:

Section 3.1.1. Pipeline Operation, second paragraph first sentence. "The maximum depth of the A.G.P. pipeline is not architecturally constrained but is set to a maximum of 256 by this interface specification."
In chapter 6, section 6.1.9. A.G.P. command register (RQ_DEPTH) there is no indicate of what value is programmed to achieve a depth of 256.

Change Current Specification as shown:

Section 6.1.7.

A.G.P. status register (offset CAP_PTR + 4)

Bits	Field	Description
31:24	**RQ**	The **RQ** field contains the maximum number of A.G.P. command requests this device can manage. "0" means a depth of 1, while FFh means a depth of 256 entries.

Section 6.1.8.

A.G.P. command register - (offset CAP_PTR + 8)

Bits	Field	Description
31:24	**RQ_DEPTH**	Master: The **RQ_DEPTH** field must be programmed with the maximum number of pipelined operations the master is allowed to enqueue in the target. Value set in this field must be equal to or less than the value reported in the **RQ** field of target's status register. . "0" means a depth of 1, while FFh means a depth of 256 entries. Target: The **RQ_DEPTH** field is reserved.