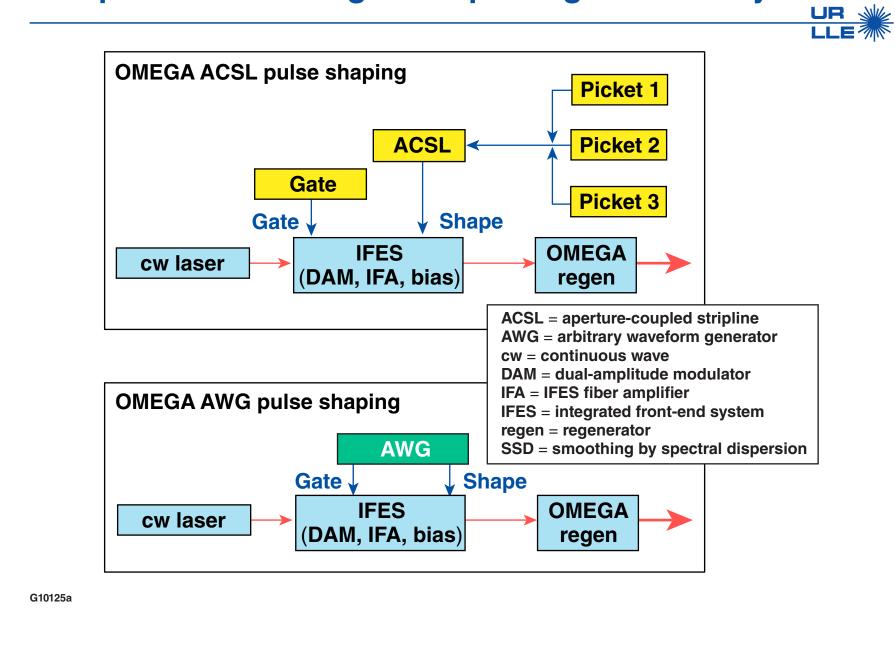
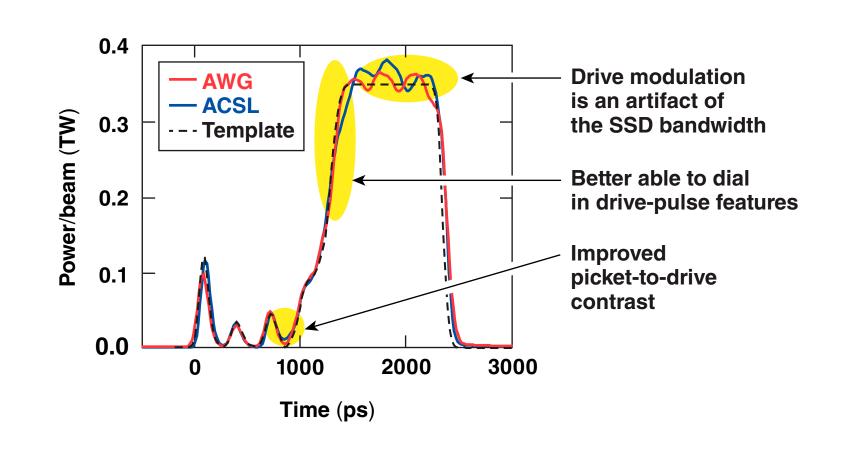
noitarene® mrotevaW vrartidrA G28 A@ElMO noitallation and Activation

E. M. HILL, G. BALONEK, R. CUFFNEY, J. H. KELLY, AND T. Z. KOSC University of Rochester, Laboratory for Laser Energetics

An AWG was installed on the OMEGA SSD driver to replace the existing ACSL pulse-generation system

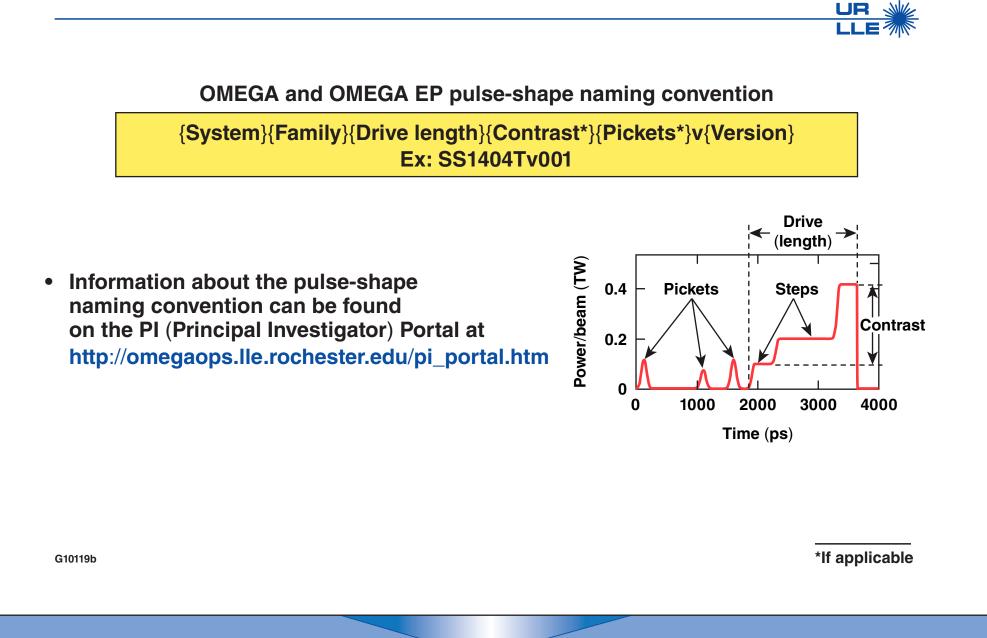


The AWG makes it possible for the facility to design and produce pulse shapes that better meet the users' requests



G10126b

A new Omega Laser Facility pulse-shape naming convention was introduced with the activation of an AWG on the OMEGA SSD driver



Several pulse-shape family names and picket definitions have been changed

New convention family names	Old convention family names
Super-Gaussian (SG)	Super-Gaussian (SG)
Step, single (SS)	Low adiabat (LA) High energy (HE) Fast-ignition spike (FIS)
Step, double (SD)	
Step, triple (ST)	
Picket, single (PS)	Picosecond pulse (PS)
Picket, double (PD)	N/A
Picket, triple (PT)	N/A
Ramp (RM)	Ramp (RM)
Reverse ramp (RR)	Reverse ramp (RR)
Modified square (MS)	Modified square (MS)

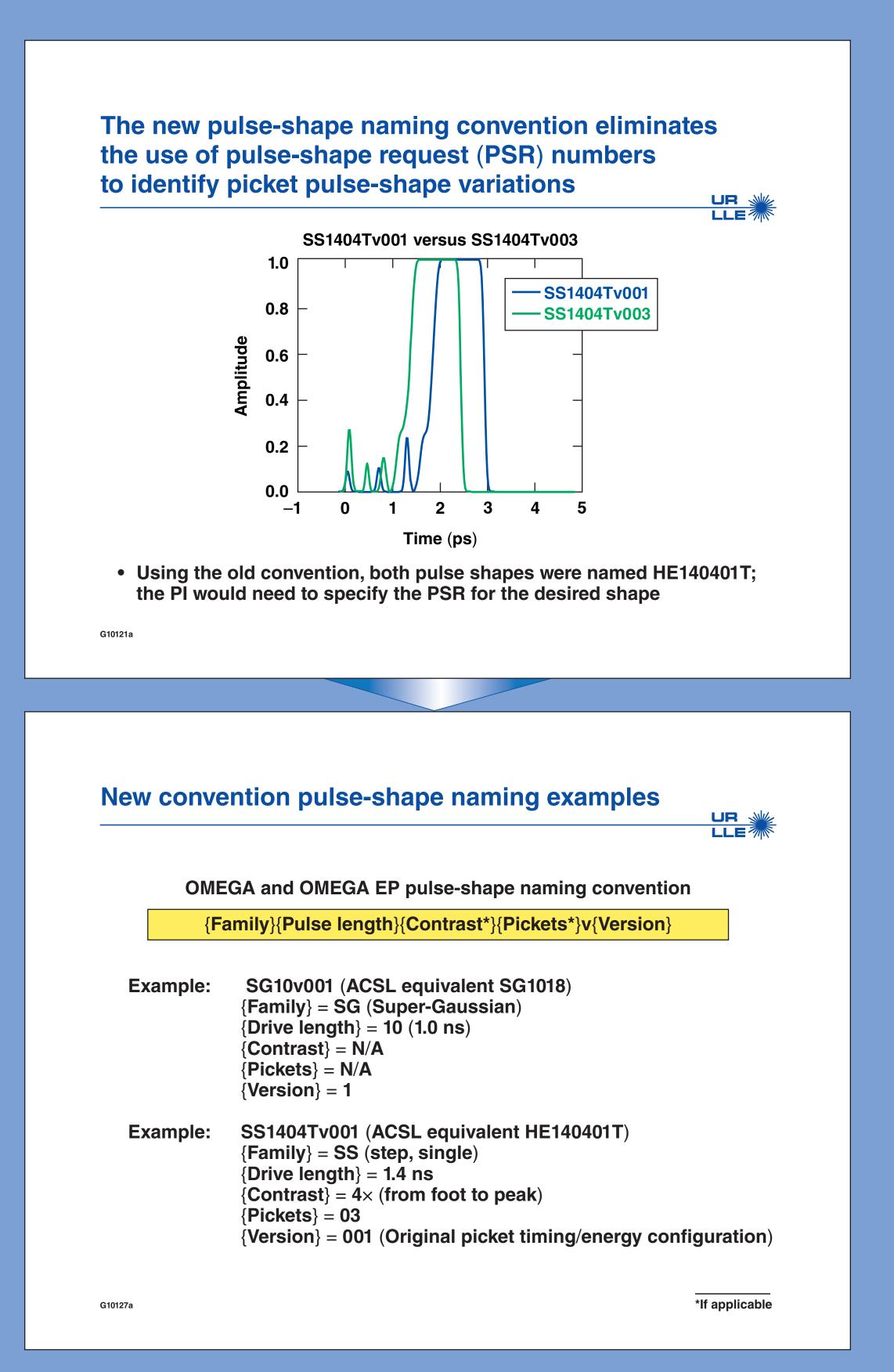
Number of pickets	SSD picket designation
1	S
2	D
3	Т
4	Q

 A conversion list from the old pulse-shape names to the new pulse-shape names can be found in the pulse-shape library at http://omegaops.lle. rochester.edu/cgi-script/ pulseShapes

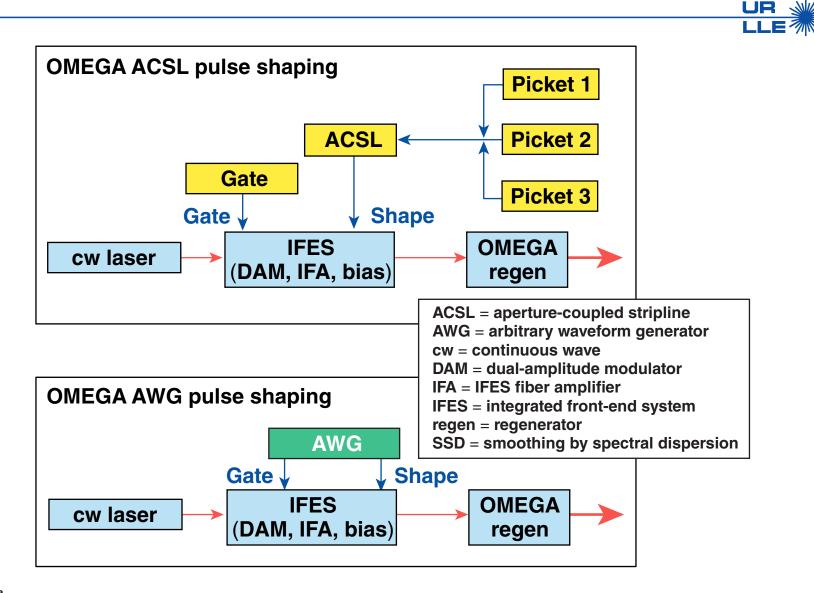
G10120a



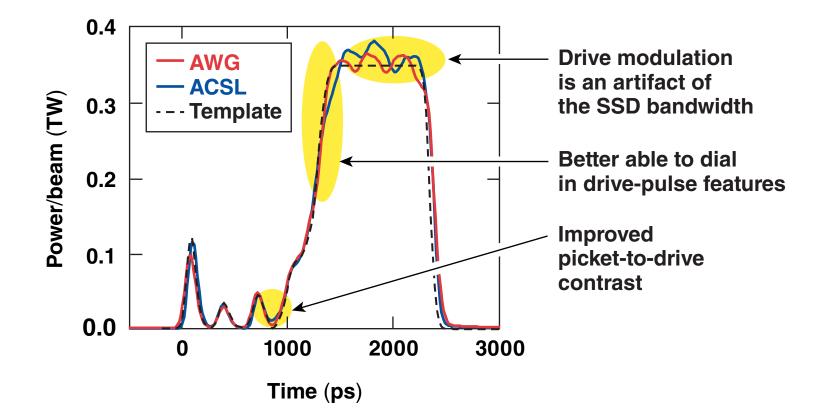




An AWG was installed on the OMEGA SSD driver to replace the existing ACSL pulse-generation system



The AWG makes it possible for the facility to design and produce pulse shapes that better meet the users' requests

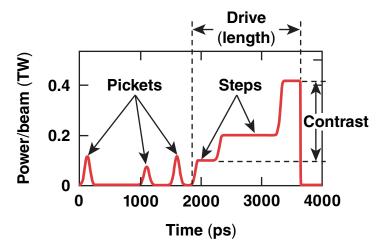


A new Omega Laser Facility pulse-shape naming convention was introduced with the activation of an AWG on the OMEGA SSD driver

OMEGA and OMEGA EP pulse-shape naming convention

{System}{Family}{Drive length}{Contrast*}{Pickets*}v{Version} Ex: SS1404Tv001

 Information about the pulse-shape naming convention can be found on the PI (Principal Investigator) Portal at http://omegaops.lle.rochester.edu/pi_portal.htm



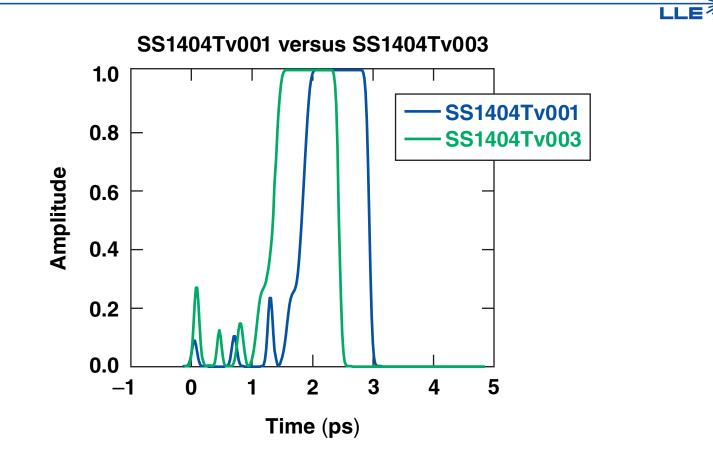
Several pulse-shape family names and picket definitions have been changed

New convention family names	Old convention family names
Super-Gaussian (SG)	Super-Gaussian (SG)
Step, single (SS)	Low adiabat (LA) High energy (HE) Fast-ignition spike (FIS)
Step, double (SD)	
Step, triple (ST)	
Picket, single (PS)	Picosecond pulse (PS)
Picket, double (PD)	N/A
Picket, triple (PT)	N/A
Ramp (RM)	Ramp (RM)
Reverse ramp (RR)	Reverse ramp (RR)
Modified square (MS)	Modified square (MS)

Number of pickets	SSD picket designation
1	S
2	D
3	Т
4	Q

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 A conversion list from the old pulse-shape names to the new pulse-shape names can be found in the pulse-shape library at http://omegaops.lle. rochester.edu/cgi-script/ pulseShapes The new pulse-shape naming convention eliminates the use of pulse-shape request (PSR) numbers to identify picket pulse-shape variations



 Using the old convention, both pulse shapes were named HE140401T; the PI would need to specify the PSR for the desired shape OMEGA and OMEGA EP pulse-shape naming convention

{Family}{Pulse length}{Contrast*}{Pickets*}v{Version}

Example: SG10v001 (ACSL equivalent SG1018) $\{Family\} = SG (Super-Gaussian)$ $\{Drive length\} = 10 (1.0 ns)$ $\{Contrast\} = N/A$ $\{Pickets\} = N/A$ $\{Version\} = 1$

Example: SS1404Tv001 (ACSL equivalent HE140401T) {Family} = SS (step, single) {Drive length} = 1.4 ns {Contrast} = 4× (from foot to peak) {Pickets} = 03 {Version} = 001 (Original picket timing/energy configuration)