

06 November 2024



Valued Supplier,

MRAS has released a revised version of its M1200. This manual identifies what processes are deemed by MRAS and its customer as special processes. It is organized into two tabs:

1) Approval Type Tab

- This tab describes the level of control MRAS places on the process by specification.
- The "Approval Type" column indicates the control per specification.
 - Vendors performing processes showing "NADC" are required to maintain a NADCAP accreditation. MRAS suppliers may use any supplier they choose provided a) When performing MRAS processing work, the supplier must be under a current NADCAP accreditation; b) The MRAS supplier controls the processor through their purchasing procedures.
 - Those processes showing "MRAS" are processes that require MRAS oversight approval. MRAS supplier may only use those approved processors shown on Tab "APL List".

2) APL List Tab

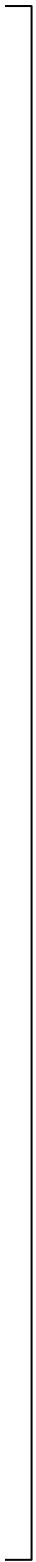
- This tab identifies processors, including location, who have been approved by MRAS to perform processes per the specifications listed under the column titled "Process Code".
- If a supplier needs to use a processor more local to their location to support their delivery commitments to MRAS. Please reach out to your MRAS buyer representative to begin the procedure of adding processors to this list.

Should you have any questions or concerns over this letter or the use of M1200, please do not hesitate to contact anyone in the MRAS Supplier Quality Group for further information.

Best Regards,
MRAS Sourcing and Supplier Quality Teams

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Specification List - Approval Type		
REVISION DATE: 2024-12-03		
FOR E-FILE, FILTER ON ANY COLUMN BELOW TO FIND A SPECIFICATION / PROCESS		
Process Code	Description	Approval Type
AC7000	AUDIT CRITERIA FOR NADCAP ACCREDITATION	NADC
AC7004 NADCAP QMS	QMS Approval Nadcap Accreditation	NADC
AC7114	Nadcap Audit Criteria for NonDestructive Testing (NDT) Audit	NADC
AC7114/3	Nadcap Audit Criteria for Non Destructive Test Ultrasonic	NADC
AC7118	NADCAP COMPOSITES	NADC
AMS2402	ZINC PLATING	NADC
AMS2403	NICKEL PLATING	NADC
AMS2406	CHROMIUM PLATING	NADC
AMS2430	SHOT PEENING	NADC
AMS2432	SHOT PEENING	NADC
AMS2469	HARD COAT	NADC
AMS2470	ANODIC COATINGS	NADC
AMS2471	Undyed Anodic Coatings	NADC
AMS2472	Sulfuric Acid Anodize	NADC
AMS2482	PTFE Hard Coat	NADC
AMS2491	PTFE Surface Treatment	NADC
AMS2615	HYDROLYC PRESSURE TESTING	NADC
AMS2658	Hardness and Conductivity Inspection of Wrought Aluminum Alloy Parts	NADC
AMS2664	SILVER BRAZING	NADC
AMS2694	Welding of Castings	NADC
AMS2700	PASSIVATION	NADC
AMS2750	PYROMETRY	NADC
AMS2759	HEAT TREATMENT OF STEEL	NADC
AMS2759/2	HEAT TREATMENT OF STEEL	NADC
AMS2759/3	HEAT TREATMENT OF STEEL	NADC
AMS2759/4	HEAT TREATMENT OF STEEL	NADC
AMS2770	Aluminum Heat Treat	NADC
AMS2771	Aluminum Casting Heat Treating	NADC
AMS2772	HEAT TREATMENT OF ALUMINUM ALLOY RAW MATERIALS	NADC
AMS2774	Heat Treatment Wrought Nickel Alloy and Cobalt Alloy Parts	NADC
AMS2801	HEAT TREATMENT OF TITANIUM	NADC
AMS5874	Alloy, Corrosion and Heat-Resistant, Sheet, Strip, and Plate	NADC
AMS7490	Rings, Flash Welded, Corrosion and Heat Resistant Austenitic	NADC
AMS7498	Rings, Flash Welded Titanium and Titanium Alloys	NADC
AMSC5541	CHEM FILM	NADC
AMSC81769	CHEM MILL	NADC
AMSH6875	ANNEALING	NADC
AMSH81200	HEAT TREATMENT OF TITANIUM AND TITANIUM ALLOYS	NADC
AMSH81200B	Heat Treat of Titanium	NADC
AMSSTD2154	Inspection, Ultrasonic, Wrought Metals, Process for	NADC
AS1701	FUSION WELDING	NADC
AS9100	QUALITY MANAGEMENT SYSTEM	REGS
AS9110/ISO9001	QUALITY MANAGEMENT SYSTEM - MRO	REGS
AS9120	QUALITY MANAGEMENT SYSTEM - Distributors	REGS
ASTMA380	CLEANING & PASSIVATION OF SS	NADC
ASTMB117	SALT SPRAY TESTING	NADC
ASTMB594	ULTRASONIC INSPECTION OF ALUMINUM-ALL	NADC
ASTMB594UT	Standard Practice for Ultrasonic Inspection of Aluminum-Alloy	NADC
ASTMB600	PASSIVATION OF SS	NADC
ASTMC297	Standard Test Method For Flatwise Tensile Strength Of Sandwi	MRAS
ASTMD2344	Short-beam testing of polymer matrix composite materials	MRAS
ASTME1417	Standard Practice for Liquid Penetrant Testing	NADC
ASTME1444	Standard Practice For Magnetic Particle Testing	NADC
ASTME1640	Standard Test Method for Assignment of the Glass Transition	NADC
ASTME1742	Standard Practice for Radiographic Examination	NADC
AWSD17.1	Standard for AWS Certification of Welding Inspectors	MRAS
MILA63576	ALUMINUM OXIDE COATINGS, LUBRICATIVE, FOR ALUMINUM	NADC
MILB007883	BRAZING STEEL COPPER ALLOYS	NADC
MILC22751	COATING SYSTEM, EPOXY-POLYAMIDE, CHEMICAL AND SOLVENT RESIST	NADC
MILC5541	Chemical Conversion Coatings	NADC
MILC81706	Chemical Conversion Coatings	NADC
MILDTL5541	CHEMICAL CONVERSION COATINGS ON ALUMINUM AND ALUMINUM ALLOYS	NADC
MILF18264	FINISHES: ORGANIC, WEAPONS SYSTEM, APPLICATION AND CONTROL O	NADC
MILI6868	MAGNETIC PARTICLE INSPECTION	NADC
MILL23398	SOLID FILM LUBRICANT	NADC
MILL46010	SOLID FILM LUBRICANT	NADC

MILL81329	SOLID FILM LUBRICANT	NADC		
MILL8937	SOLID FILM LUBRICANT HEAT CURED	NADC		
MILPRF23377	PERFORMANCE SPECIFICATION: PRIMER COATINGS: EPOXY, HIGH-SOLI	NADC		
MILPRF85285	PERFORMANCE SPECIFICATION: COATING: POLYURETHANE, AIRCRAFT A	NADC		
MILPRF8625	ANODIC COATINGS FOR ALUMINUM	NADC		
MILS13165	SHOT PEENING	NADC		
MILSTD1595	SHOT PEENING	NADC		
MILSTD1907	INSPECTION, LIQUID PENETRANT AND MAGNETIC PARTICLE, SOUNDNES	NADC		
MILSTD1949	INSPECTION, MAGNETIC PARTICLEÅ	NADC		
MILSTD2219	FUSION WELDING	NADC		
MILSTD753	CORROSION-RESISTANT STEEL PARTS: SAMPLING, INSPECTION AND TE	NADC		
MILW6858	WELDING, RESISTANCE: SPOT AND SEAM	NADC		
MILW8611	WELDING, METAL ARC AND GAS, STEELS, AND CORROSION A	NADC		
NAS410	NAS CERTIFICATION & QUALIFICATION OF NONDESTRUCTIVE TEST PER	NADC		
QMS	QMS MISCELLANEOUS	MRAS		
QQP416	CAD PLATING	NADC		
QQS365	SILVER PLATING	NADC		
STMGA350	CERAMIC FILLED PTF	MRAS		
STMGH696	EPOXY ADHESIVE PRIMER	MRAS		
STMPH107	EPOXY ADHESIVE PRIMER	MRAS		
STMPM120	CORE SPLICE FOAM	MRAS		
STMPM121	Adhesive, Sprayable	MRAS		
STMPM133	High Tempeopxy paste adhesive	MRAS		
STP10P300	HEAT TREATMENT OF ALUMINUM	NADC		
STP10P305	Solution Heat Treatment of 2024 Aluminum Alloy	NADC		
STP10P321	Stress relief of aluminum	NADC		
STP30P100	APPLICATION OF COATINGS	MRAS		
STP40P100	APPLICATION OF DRY FILM LUBE	NADC		
STP50P023	IMMERSION ALKALINE CLEAN	MRAS		
STP50P036	ALKALINE CLEAN	MRAS		
STP50P046	DEGREASE	MRAS		
STP50P063	Descaling and cleaning of titanium	MRAS		
STP50P074	Surface prep for bonding	MRAS		
STP55P014	Fusion Welding, corosion and heat resistant steel	MRAS		
STP55P055	Fusion Welding of aluminum	MRAS		
STP60P103	Application of epoxy paste film adhesive	MRAS		
STP65P100	Repair for epoxy laminate composite	MRAS		
STP65P108	Application of SS screen	MRAS		
STP65P109	Application of adhesive sealant	MRAS		
STP70P100	Sealing of cured coposit details	MRAS		
STP75P101	Fabrication of epoxy laminates	MRAS		
STP75P102	Testing of composites	MRAS		
STP75P104	Composite machining	MRAS		
STP75P108	Resin tranfer molded laminates	MRAS		
STP75P109	Leak testing of bonded assemblies	MRAS		
STPB50074	SURFACE PREP FOR BONDING	MRAS		
STPB73019	Application of epoxy paste adhesive	MRAS		
STPB73103	FABRICATION OF COMPOSITES	MRAS		
STPG10300	HEAT TREATMENT OF ALUMINUM	NADC		
STPG10305	Heat Treat 2024	NADC		
STPG10310	Heat Treat 6061	NADC		
STPG10400	HEAT TREATMENT OF STEEL	NADC		
STPG10438	HARDENING OF SS	NADC		
STPG10439	Precipitation Hardening 17-4 PH Corrosion Resistant Steel to	NADC		
STPG10451	hardening of SS to conditions (H)	NADC		
STPG30063	Chem film	NADC		
STPG30112	Anotic Coating	NADC		
STPG50029	De OX of alumunum	MRAS		
STPG50036	Alkaline clean	MRAS		
STPG50042	Cleaning and descaling of and passivation of SS	NADC		
STPG50046	DEGREASE	MRAS		
STPG50047	Abarsive Clean	MRAS		
STPG50074	Surface prep for adhesive bonding	MRAS		
STPG50075	Clean for Bonding	MRAS		
STPG55010	WELDING, RESISTANCE: ALUMINUM AND MAGNESIUM ALLOYS, SPOT AND	MRAS		
STPG55014	Fusion weld of SS	MRAS		
STPG55055	Fusion weld, aluminum	MRAS		
STPG60022	bonding with modified adhesive	MRAS		
STPG73011	Sealing of cured coposite details	MRAS		
STPG73012	Painting of composite and metal parts and assemblies	MRAS		
STPG73021	FEP FL Resin hard coat	MRAS		
STPG73025 EDM (4.2)	Sheet metal parts shop run tolerances - ED	MRAS		
STPG73025 LSR (4.1)	Sheet metal parts shop run tolerances - Laser Cutting	MRAS		

STPG73025WJT(4.3)	Sheet metal parts shop run tolerances - Water Jet Cutting	MRAS		
STPG73051	Bonding of metallic components	MRAS		
STPG73058	Application of epoxy resin primer	MRAS		
STPG73061	Application of dry film lube	MRAS		
STPG73062	Bonding with RTV silicone	MRAS		
STPG73078	Testing of adhesives	MRAS		
STPG73081	Heat cured dry film lube	MRAS		
STPG73082	WELDING OF CASTINGS	MRAS		
STPG73084	BRAZING	MRAS		
STPG73103	COMPOSITE BONDING	MRAS		
STPG73105	COMPOSITE PROCESSING	MRAS		
STPM50074	Surface clean for bonding	MRAS		
STPM50075	PAA	MRAS		
STPM73010	MACHINING OF COMPOSITES	MRAS		
STPM73019	Application of epoxy paste adhesive	MRAS		
STPM73025NCM(5.14)	Sheet metal shop run tol -	MRAS		
STPM73051	Bonding with hi temp modified epoxy adhesive	MRAS		
STPM73058	Painting of composite and metal parts and assemblies	MRAS		
STPM73071	Application of corrosion inhibiting primer	MRAS		
STPM73103	FABRICATION OF COMPOSITES	MRAS		
STPM74100	FABRICATION OF CORE	MRAS		
STPM74200	ULTRASONIC TESTING OF COMPOSITES	MRAS		
STPM75105	OVER AGE TESTING	MRAS		

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PREMIER PROCESSING	WICHITA	STPG73012	Painting of metal and composite parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
PREMIER PROCESSING	WICHITA	STPM73058	Application of epoxy resin primer	Approved	MRAS SPECIAL PROCESS AUDIT
PREMIER PROCESSING	WICHITA	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
PROCOAT FINISHING LTD	VAUGHAN	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
PROCOAT FINISHING LTD	VAUGHAN	STPM73071	Application of corrosion inhibiting primer	Approved	MRAS SPECIAL PROCESS AUDIT
PROTECTIVE COATINGS INC	KENT	STPG50036	ALKALINE CLEAN	Approved	MRAS SPECIAL PROCESS AUDIT
PROTECTIVE COATINGS INC	KENT	STPG73012	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
PROTECTIVE COATINGS INC	KENT	STPG73058	Application of epoxy resin primer	Approved	MRAS SPECIAL PROCESS AUDIT
PROTECTIVE COATINGS INC	KENT	STPG73061	Application Of Dry Film Lubricant Coating	Approved	MRAS SPECIAL PROCESS AUDIT
PROTECTIVE COATINGS INC	KENT	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
PRYER AEROSPACE LLC	TULSA	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
PTI INDUSTRIES INCORPORATED	ENFIELD	STMGA350	CERAMIC FILLED PTF	Approved	MRAS SPECIAL PROCESS AUDIT
PTI INDUSTRIES INCORPORATED	ENFIELD	STMGH696	EPOXY ADHESIVE PRIMER	Approved	MRAS SPECIAL PROCESS AUDIT
PTI INDUSTRIES INCORPORATED	ENFIELD	STPG50074	Surface prep for adhesive bonding	Approved	MRAS SPECIAL PROCESS AUDIT
PTI INDUSTRIES INCORPORATED	ENFIELD	STPG60022	bonding with modified adhesive	Approved	MRAS SPECIAL PROCESS AUDIT
PTI INDUSTRIES INCORPORATED	ENFIELD	STPM45074	Surface clean for bonding	Approved	MRAS SPECIAL PROCESS AUDIT
QARBON AEROSPACE INC	MILLEDGEVILLE	STPM74100	Fabrication of core	Approved	MRAS SPECIAL PROCESS AUDIT
QUALITY PLATING OF TULSA INC	TULSA	STPG73058	Application of epoxy resin primer	Approved	MRAS SPECIAL PROCESS AUDIT
QUALITY PLATING OF TULSA INC	TULSA	STPG73061	Application Of Dry Film Lubricant Coating	Approved	MRAS SPECIAL PROCESS AUDIT
RAY MACHINE INCORPORATED	BALTIMORE	AWSD17.1	Standard for AWS Certification of Welding Inspectors	Approved	MRAS SPECIAL PROCESS AUDIT
RAY MACHINE INCORPORATED	BALTIMORE	STPM73025NCM(5.14)	Sheet metal shop run tol -	Approved	MRAS SPECIAL PROCESS AUDIT
ROYAL ENGINEERED COMPOSITES INC	MINDEN	STPB73103	FABRICATION OF COMPOSITES	Approved	MRAS SPECIAL PROCESS AUDIT
ROYAL ENGINEERED COMPOSITES INC	MINDEN	STPG73105	COMPOSITE PROCESSING	Approved	MRAS SPECIAL PROCESS AUDIT
ROYAL ENGINEERED COMPOSITES INC	MINDEN	STPM45074	Surface clean for bonding	Approved	MRAS SPECIAL PROCESS AUDIT
ROYAL ENGINEERED COMPOSITES INC	MINDEN	STPM73010	MACHINING OF COMPOSITES	Approved	MRAS SPECIAL PROCESS AUDIT
ROYAL ENGINEERED COMPOSITES INC	MINDEN	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
ROYAL ENGINEERED COMPOSITES INC	MINDEN	STPM73103	FABRICATION OF COMPOSITES	Approved	MRAS SPECIAL PROCESS AUDIT
RTI ADVANCED FORMING LTD.	WELWYN GARDEN CITY	AWSD17.1	Standard for AWS Certification of Welding Inspectors	Approved	MRAS SPECIAL PROCESS AUDIT
RTI ADVANCED FORMING LTD.	WELWYN GARDEN CITY	STPM73025NCM(5.14)	Sheet metal shop run tol -	Approved	MRAS SPECIAL PROCESS AUDIT
SENIOR OPERATIONS LLC - SENIOR AERO	SAN DIEGO	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
SMITHS TUBULAR SYSTEMS	LACONIA	AWSD17.1	Standard for AWS Certification of Welding Inspectors	Approved	MRAS SPECIAL PROCESS AUDIT
STEELVILLE MANUFACTURING	STEELVILLE	STPG73058	Application of epoxy resin primer	Approved	MRAS SPECIAL PROCESS AUDIT
STEELVILLE MANUFACTURING	STEELVILLE	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
SULLIVAN PRECISION METAL FINISHING	SULLIVAN	STPG73012	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
SULLIVAN PRECISION METAL FINISHING	SULLIVAN	STPG73058	Application of epoxy resin primer	Approved	MRAS SPECIAL PROCESS AUDIT
SULLIVAN PRECISION METAL FINISHING	SULLIVAN	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
SUMATECH INC	WHITE MARSH	AWSD17.1	Standard for AWS Certification of Welding Inspectors	Approved	MRAS SPECIAL PROCESS AUDIT
SUMATECH INC	WHITE MARSH	STPS5P14	Fusion Welding, corrosion and heat resistant steel	Approved	MRAS SPECIAL PROCESS AUDIT
SUMATECH INC	WHITE MARSH	STPG73025WJT(4.3)	Sheet metal parts shop run tolerances - Water Jet Cutting	Limited Approval	MRAS SPECIAL PROCESS AUDIT
SUMATECH INC	WHITE MARSH	STPM73019	Application of epoxy paste adhesive	Approved	MRAS SPECIAL PROCESS AUDIT
SUMATECH INC	WHITE MARSH	STPM73025NCM(5.14)	Sheet metal shop run tol -	Approved	MRAS SPECIAL PROCESS AUDIT
SUMATECH INC	WHITE MARSH	STPM73051	Bonding with Hi temp modified epoxy adhesive	Approved	MRAS SPECIAL PROCESS AUDIT
SUMATECH INC	WHITE MARSH	STPM73103	FABRICATION OF COMPOSITES	Approved	MRAS SPECIAL PROCESS AUDIT
TECHNICAL FINISHERS LLC	BALTIMORE	STP30P100	Application of coatings	Approved	MRAS SPECIAL PROCESS AUDIT
TECHNICAL FINISHERS LLC	BALTIMORE	STPG73058	Application of epoxy resin primer	Approved	MRAS SPECIAL PROCESS AUDIT
THE GILL CORPORATION - MARYLAND	EDGEWOOD	STPB73103	FABRICATION OF COMPOSITES	Approved	MRAS SPECIAL PROCESS AUDIT
THE GILL CORPORATION - MARYLAND	EDGEWOOD	STPM74100	FABRICATION OF CORE	Approved	MRAS SPECIAL PROCESS AUDIT
THE GILL CORPORATION - MARYLAND	EDGEWOOD	STPM75105	OVER AGE TESTING	Approved	MRAS SPECIAL PROCESS AUDIT
VALENCE SURFACE TECHNOLOGIES	LYNWOOD	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
VALENCE SURFACE TECHNOLOGIES	WICHITA	STP30P100	Application of coatings	Approved	MRAS SPECIAL PROCESS AUDIT
VALENCE SURFACE TECHNOLOGIES	WICHITA	STPG73012	Painting metal and composite parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT
VALENCE SURFACE TECHNOLOGIES	WICHITA	STPG73021	FEP-RESIN IMPREG ANODIZE COAT	Approved	MRAS SPECIAL PROCESS AUDIT
VALENCE SURFACE TECHNOLOGIES	WICHITA	STPG73058	Application of epoxy resin primer	Approved	MRAS SPECIAL PROCESS AUDIT
VALENCE SURFACE TECHNOLOGIES	WICHITA	STPM73058	Painting of composite and metal parts and assemblies	Approved	MRAS SPECIAL PROCESS AUDIT

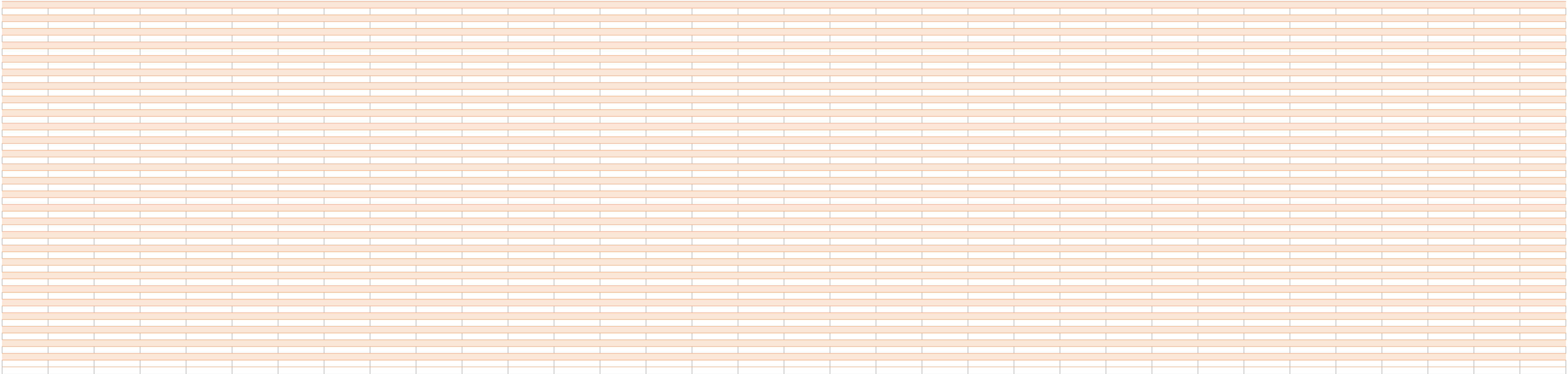
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Column56	Column57	Column58	Column59	Column60	Column61	Column62	Column63	Column64	Column65	Column66	Column67	Column68	Column69	Column70	Column71	Column72	Column73	Column74	Column75	Column76	Column77	Column78	Column79	Column80	Column81	Column82	Column83	Column84	Column85	Column86	Column87	Column88	Column89	Column90	Column91	Column92	Column93		

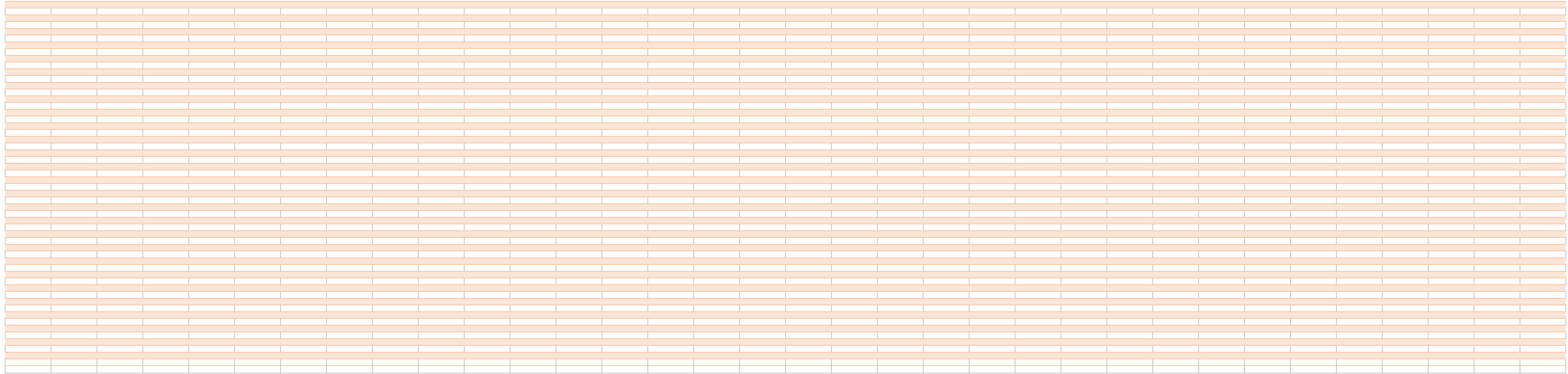
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Column129	Column130	Column131	Column132	Column133	Column134	Column135	Column136	Column137	Column138	Column139	Column140	Column141	Column142	Column143	Column144	Column145	Column146	Column147	Column148	Column149	Column150	Column151	Column152	Column153	Column154	Column155	Column156	Column157	Column158	Column159	Column160	Column161	Column162	

A large rectangular table with a light orange header row and a large number of empty white rows below it. The columns are narrow and numerous, creating a dense grid structure.

Column401	Column402	Column403	Column404	Column405	Column406	Column407	Column408	Column409	Column410	Column411	Column412	Column413	Column414	Column415	Column416	Column417	Column418	Column419	Column420	Column421	Column422	Column423	Column424	Column425	Column426	Column427	Column428	Column429	Column430	Column431	Column432	Column433	Column434				

The image shows a large rectangular grid of orange-bordered cells. The grid is composed of approximately 30 columns and 25 rows. The cells are currently empty, serving as a placeholder for data or as a redacted area. The grid is located in the upper half of the page.

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Column605	Column606	Column607	Column608	Column609	Column610	Column611	Column612	Column613	Column614	Column615	Column616	Column617	Column618	Column619	Column620	Column621	Column622	Column623	Column624	Column625	Column626	Column627	Column628	Column629	Column630	Column631	Column632	Column633	Column634	Column635	Column636	Column637	Column638			

Column639	Column640	Column641	Column642	Column643	Column644	Column645	Column646	Column647	Column648	Column649	Column650	Column651	Column652	Column653	Column654	Column655	Column656	Column657	Column658	Column659	Column660	Column661	Column662	Column663	Column664	Column665	Column666	Column667	Column668	Column669	Column670	Column671	Column672		

