

General Information or Other (PAR)

Event # 44504

<b>Rep Org:</b> SPECTRUM TECHNOLOGIES		<b>Notification Date / Time:</b> 09/19/2008 11:01 (EDT)	
<b>Supplier:</b> SPECTRUM TECHNOLOGIES		<b>Event Date / Time:</b> 09/15/2008 (EDT)	
<b>Last Modification:</b> 09/19/2008			
<b>Region:</b> 1	<b>Docket #:</b>		
<b>City:</b> SCHNECTADY	<b>Agreement State:</b> Yes		
<b>County:</b>	<b>License #:</b>		
<b>State:</b> NY			
<b>NRC Notified by:</b> RANDY REYNOLDS	<b>Notifications:</b> MIKE ERNSTES	R2	
<b>HQ Ops Officer:</b> MARK ABRAMOVITZ	VERN HODGE	NRR	
<b>Emergency Class:</b> NON EMERGENCY	JOHN THORP	NRR	
<b>10 CFR Section:</b>	ANNE MARIE STONE	R3	
21.21	UNSPECIFIED PARAGRAPH		

PART 21 - SIEMENS MODEL 353 PROCESS CONTROLLER TRANSFORMER FAILURE

The following information was received via facsimile.

"The defect concerns a decreased reliability of the transformer within the controller. The failure of the transformer can cause the controller to not power up when energized or to unexpectedly shut down during normal operation."

This notification is for the following controller models shipped between 2/21/2007 and 4/21/2008:

- 353A, Kit A
- TGX:353A, Kit B
- 16353-68 Controller Board Kits for Design Level A
- TGX:16353-302 Controller Board Kit for Design Level B


Affected licensees are Florida Power and Light (Duane Arnold) and Duke Energy (Oconee).

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IE19  
NRR



# SPECTRUM TECHNOLOGIES

a division of 

September 18, 2008

To: FPL Energy  
 Manager, Regulatory Affairs  
 Duane Arnold Energy Center  
 3277 DAEC Road  
 Palo, IA 52324

Duke Energy – Oconee Nuclear Station  
 Nuclear Performance & Strategy  
 155 East Pickens Highway  
 Seneca, SC 29672

## Potential Defect – 10CFR Part 21 Siemens – Model 353 Process Automation Controllers

The purpose of this letter is to notify the Purchaser/Licensee of a potential defect as defined in 10CFR Part 21, "Reporting of Defects and Noncompliance." The defect concerns Siemens – Model 353 Process Automation Controllers delivered to Florida Power & Light – Duane Arnold, and Duke Energy – Oconee Nuclear Plant, as noted in the Table below.

Licensee / PO	Date	Quan.	Spectrum Job #	Affected S/N's
FPL / K117251	03/07/2007	2	07C0500	01766855, 01766890
Duke / 00101032	02/14/2008	2	08P0980	01775674, 01775693
Duke / 00103684	04/11/2008	2	08P2200	01776916, 01776815

Spectrum was notified of the defect on September 15, 2008 by Seimens Energy & Automation, through Service Memo #SM353-10, Revision 1, dated June 2008 (attached). The affected serial numbers are highlighted in the attached memo. Specifically, the defect concerns a decrease reliability of the transformer within the controller. The failure of the transformer can cause the controller either to not power up when energized or to unexpectedly shut down during normal operation.

Based on the commercial grade dedication activities performed, ATC – Spectrum does not have sufficient information to determine if the end-use application will create a substantial safety hazard or violate a Technical Specification limit within the Licensee's respective FSAR. Thus as of the date of this letter, ATC – Spectrum is not capable of performing an adequate evaluation and is hereby notifying affected Purchaser's/Licensee's.

The attached Service Memo from Seimens summarizes the defect and affected serial numbers. If you have any questions, please feel free to contact me at (518) 207-6328 or Robert Lane at (865) 218-8247.

Very truly yours,

  
 George Kurin  
 President  
 ATC – Spectrum Technologies Division

cc: U.S. NRC – Document Control Desk – Washington, DC

Attachment: Seimens Service Memo #SM353-10, Revision 1, dated June 2008; with highlighted s/n's

<b>Siemens Energy &amp; Automation</b>	<h1 style="margin: 0;">SERVICE MEMO</h1>
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**SM353-10**  
 Rev: 1  
 June 2008

## Model 353 Process Automation Controller Power Transformer T2

### PRODUCTS INVOLVED

The following 120/240 Vac power input controller models and kits are affected by this Service Memo.

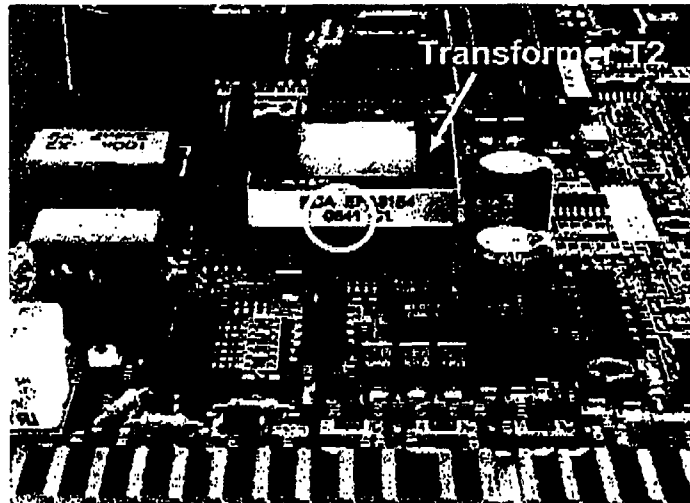
Controller Models and Kits	Shipped Between	MPU Controller Board Serial Number	Involved Transformer Date Codes
353A _____ A <sup>1</sup>	February 21, 2007 and April 21, 2008	See attached lists for design level A (pages 4-11) and design level B (page 12)	0645 through 0809
TGX:353A _____ B			
16353-68 Controller Board Kit, for Design Level A			
TGX:16353-302 Controller Board Kit, for Design Level B			

### REASONS FOR SERVICE MEMO

A limited series of power supply transformers may exhibit decreased reliability. The failure of this transformer can cause the controller either to not power up when 120/240 Vac input power is applied or to unexpectedly shut down during otherwise normal operation. Involved transformers are identified by a date code. Refer to the photograph below for the location of the transformer and transformer date code.



**Model 353**



**MPU Controller Board, "Before Range" Date Code of 0641 Shown**

<sup>1</sup> Underscores in model numbers are placeholders for alphanumeric characters not involved in identifying involved controllers. The next to last character in the model number is the Design Level.

SM353-10**PRIORITY**

[ ] Mandatory [ X ] Recommended

**CORRECTIVE ACTION****Factory**

All controllers in production and stock have been inspected and corrected as required.

A list of involved controllers and kits shipped to customers has been compiled and a customer notification program initiated. As part of the program, this Service Memo has been prepared.

**Field**

Notices sent to affected customers are accompanied by this Service Memo. Perform the Procedure steps to survey the controllers and kits at your facility and identify MPU Controller boards to be returned for a no charge repair or replacement.

For a board to be returned to Siemens:

1. The MPU Controller board serial number must appear in one of the serial number lists on pages 4-12 *AND*
2. The date code on transformer T2 must be within the range shown in Products Involved on page 1.

**Procedure****CAUTION**

Refer to controller User's Manual UM353-1 (for Design Level A) or UM353-1B (for Design Level B) and to your plant operating and safety procedures if it is necessary to remove a controller from service or remove the MPU Controller board. Read and understand all Warnings and Cautions stated in labels on the product and in the manual. The current revision of the manual can be downloaded from the Siemens Internet site.

**IMPORTANT**

An anti-static wrist strap with a properly grounded ground lead must be worn whenever a circuit board is handled.



1. Locate Model 353 controllers and MPU Controller board kits at your facility.

Refer to Products Involved on page 1 for controller model numbers, kit part numbers and dates shipped. Identify potentially involved products by:

- Controller – Model number and date shipped; then go to Step 2 to read the serial number.
  - MPU Controller board Kit – Kit part number and date shipped; then go to Step 2 to read the serial number.
2. Read the controller/MPU Controller board serial number.
    - Operating Controller – Enter configuration, access the STATN function block and read the serial number parameter on the Display Assembly faceplate; the serial number of the installed MPU Controller board is shown. Scan the Serial Number Lists on pages 4-12. If the serial number is on a list, go to Step 3 to remove the MPU Controller board. If it is not on a list, the controller and MPU Controller board are not affected by this Service Memo and can remain in service.

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- Unpowered Controller – Read the serial number on the nameplate label on the case.<sup>2</sup> Scan the Serial Number Lists on pages 4-12. If the serial number is on a list (or the serial number cannot be read), go to Step 3 to remove the MPU Controller board. If the serial number is not on a list, the controller and MPU Controller board are not affected by this Service Memo and are available for use.
  - MPU Controller board Kit – Place an anti-static wrist strap on your wrist and connect the strap ground lead to a good ground. Remove the board from the anti-static bag and read the serial number on the bar code label on the board. Scan the Serial Number Lists on pages 4-12. If the serial number is on a list, go to Step 4 to read the transformer date code. If the serial number is not on a list, return the board to the kit anti-static bag; the board is not affected by this Service Memo and is available for use.
3. Remove the MPU Controller board from a controller.
    - 1) Remove AC and DC power from all wires and terminals.
    - 2) Place an anti-static wrist strap on your wrist and connect the strap ground lead to a good ground.
    - 3) Remove the MPU Controller board from the case. Refer to UM353-1 (design level A) or UM353-1B (design level B) for important Warnings and Cautions and for board removal details.
  4. Read the date code on transformer T2 on an MPU Controller board.

Refer to the MPU Controller board photograph on page 1 for date code location. Refer to Products Involved on page 1 for date code range. On the board at hand, note the date code on transformer T2.

If the date code on transformer T2 is *within* the date code range on page 1 (and the serial number on the MPU Controller board appears on an accompanying serial number list), place the board in a static shielding bag and contact Repair Service (see Customer/Product Support) to return the board for repair or replacement.<sup>3</sup> Disconnect the wrist strap.

#### Note

FCO 101 is installed when the board is factory serviced. Save a critical configuration before sending the board to Repair Service.

If the date code on transformer T2 is *before or after* the date code range on page 1, install the board in a controller or kit and disconnect the wrist strap. The MPU Controller board is not affected by this Service Memo and is available for use.

For technical assistance, see Customer/Product Support. The current revision of this Service Memo is available at the Siemens public Internet site.

### CUSTOMER/PRODUCT SUPPORT

For customer/product support, visit the Siemens Process Instrumentation product support page at <http://www2.sea.siemens.com/Products/Process-Instrumentation/Support/Customer-Support.htm>. Select the desired type of support (e.g. application, product selection, sales, technical – see below).

Technical Support	
Telephone	1 800 333 7421
E-mail	<a href="mailto:techsupport.sea@siemens.com">techsupport.sea@siemens.com</a>
Hours of Operation	8 a.m. to 4:45 p.m. eastern time, Monday through Friday (except holidays)
Technical Publications in PDF	<a href="http://www2.sea.siemens.com/Products/Process-Instrumentation/Support/PI-User-Manuals.htm">http://www2.sea.siemens.com/Products/Process-Instrumentation/Support/PI-User-Manuals.htm</a> then click the product line (e.g. Control Solutions)
Public Internet Site	<a href="http://www2.sea.siemens.com/Products/Process-Instrumentation">http://www2.sea.siemens.com/Products/Process-Instrumentation</a>
Repair Service	1 800 365 8766 extension 3187

<sup>2</sup> The serial number of the factory installed MPU Controller board is shown. If the board has been changed, it will be necessary to remove the board to ascertain the current serial number.

<sup>3</sup> At Siemens sole discretion

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## Controller/MPU Controller Board Serial Numbers

The MPU Controller board serial number appears three places: 1) on the controller case nameplate label, 2) on a bar code label on the MPU Controller board, and 3) on the Display Assembly as a parameter in the STATN function block when a controller is operating in "configuration mode." If the MPU Controller board is replaced, the serial number on the nameplate label will differ from the serial number on the replacement MPU Controller board. The serial number shown on the Display Assembly is obtained from the installed MPU Controller board.

There are two lists on the following pages. The first list is seven pages in length and is for Design Level A controllers and MPU Controller boards. After reading a serial number, use the Quick Serial Number Page Locator below to find the range of serial numbers into which the number falls and the referenced page.

### Quick Serial Number Page Locator for Design Level A Controllers

From SN	Through SN	Go To Page
017 62 328	017 67 788	5
017 68 202	017 69 227	6
017 69 535	017 71 260	7
017 71 316	017 72 633	8
017 73 169	017 73 999	9
017 74 000	017 75 724	10
017 75 725	017 77 230	11

The second list, on page 12, is for Design Level B controllers and MPU Controller boards.

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### 353 Design Level A, SM353-10 Serial Number List

A blank cell in a column sequence indicates a gap of 10 or more in the serial numbers.

Serial Number Range for This Page: 01762328 to 01767788

01762328 to 01766801	01766843 to 01766879	0176680 to 01766920	01766930 to 01767159	01767160 to 01767749	01767750 to 01767788
01762328	01766843	01766880	01766930	01767160	01767750
	01766844	01766881	01766931	01767161	01767751
01763392	01766845	01766882	01766932	01767162	01767752
	01766846	01766883		01767163	01767753
01765528	01766847	01766884	01766963	01767164	01767754
	01766848	01766885	01766964	01767165	01767755
01766676	01766849	01766886		01767166	01767756
01766677	01766850	01766887	01767127	01767167	01767757
01766678	01766851	01766888	01767128	01767168	01767758
01766679	01766852	01766889	01767129	01767169	01767759
01766680	01766853	01766890	01767130	01767170	01767760
01766681	01766854	01766891	01767131	01767171	01767761
01766682	01766855	01766892	01767132	01767172	01767762
01766683	01766856	01766893	01767133	01767173	01767763
01766684	01766857	01766894	01767134		01767764
01766685	01766858	01766895	01767135	01767728	01767765
01766686	01766859	01766896	01767136	01767729	01767766
01766687	01766860	01766897	01767137	01767730	
01766688	01766861	01766898	01767138	01767731	01767775
	01766862	01766899	01767139	01767732	01767776
01766755	01766863	01766900	01767140	01767733	01767777
01766756	01766864	01766901	01767141	01767734	01767778
01766757	01766865	01766902	01767142	01767735	01767779
01766758	01766866	01766903	01767143	01767736	01767780
01766759	01766867	01766904	01767144	01767737	01767781
01766760	01766868	01766905	01767145	01767738	01767782
01766761	01766869	01766906	01767146	01767739	01767783
01766762	01766870	01766907	01767147	01767740	01767784
	01766871	01766908	01767148	01767741	01767785
01766798	01766872	01766909	01767149	01767742	01767786
01766799	01766873	01766910	01767150	01767743	01767787
01766800	01766874	01766911	01767151	01767744	01767788
01766801	01766875	01766912	01767152	01767745	
	01766876	01766913	01767153	01767746	
	01766877	01766914	01767154	01767747	
	01766878	01766915	01767155	01767748	
	01766879	01766916	01767156	01767749	
		01766917	01767157		
		01766918	01767158		
		01766919	01767159		
		01766920			

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### 353 Design Level A, SM353-10 Serial Number List

Serial Number Range for This Page: 01768202 to 01769227

01768202 to 01768239	01768240 to 01768524	01768534 to 01768776	01768777 to 01768822	01768829 to 01769175	01769176 to 01769227
01768202	01768240	01768534	01768777	01768829	01769176
01768203	01768241	01768535	01768778	01768830	01769177
01768204	01768242	01768536	01768779	01768831	01769178
01768205	01768243	01768537	01768780	01768832	01769179
01768206	01768244	01768538	01768781	01768833	01769180
01768207	01768245	01768539	01768782	01768834	01769181
01768208	01768246	01768540	01768783	01768835	01769182
01768209	01768247	01768541	01768784	01768836	01769183
01768210	01768248	01768542	01768785	01768837	01769184
01768211	01768249	01768543	01768786	01768838	01769185
01768212	01768250	01768544	01768787	01768839	01769186
01768213	01768251	01768545	01768788	01768840	01769187
01768214		01768546	01768789	01768841	01769188
01768215	01768495	01768547	01768790	01768842	01769189
01768216	01768496	01768548	01768791	01768843	01769190
01768217	01768497	01768549	01768792	01768844	01769191
01768218	01768498	01768550		01768845	01769192
01768219	01768499	01768551	01768801	01768846	01769193
01768220	01768500	01768552	01768802	01768847	01769194
01768221	01768501	01768553	01768803	01768848	01769195
01768222	01768502		01768804	01768849	01769196
01768223	01768503	01768741	01768805	01768850	01769197
01768224	01768504	01768742	01768806	01768851	01769198
01768225	01768505	01768744	01768807	01768852	01769199
01768226	01768506	01768745	01768808	01768853	01769200
01768227	01768507	01768746	01768809	01768854	01769201
01768228	01768508	01768747	01768810	01768855	01769202
01768229	01768509	01768748	01768811	01768856	01769203
01768230	01768510	01768749	01768812	01768857	01769204
01768231	01768511	01768750	01768813	01768858	01769205
01768232	01768512	01768751	01768814	01768859	
01768233	01768513	01768752	01768815	01768860	01769216
01768234	01768514	01768753	01768816	01768861	01769217
01768235	01768515		01768817		01769218
01768236	01768516	01768768	01768818	01769167	01769219
01768237	01768517	01768769	01768819	01769168	01769220
01768238	01768518	01768770	01768820	01769169	01769221
01768239	01768519	01768771	01768821	01769170	01769222
	01768520	01768772	01768822	01769171	01769223
	01768521	01768773		01769172	01769224
	01768522	01768774		01769173	01769225
	01768523	01768775		01769174	01769226
	01768524	01768776		01769175	01769227



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### 353 Design Level A, SM353-10 Serial Number List

Serial Number Range for This Page: 01769535 to 01771260

01769535 to 01769599	01769600 to 01769885	01769886 to 01770123	01770407 to 01770448	01770458 to 01771043	01771044 to 01771260
01769535	01769600	01769886	01770407	01770458	01771044
01769536	01769601	01769887	01770408	01770459	01771045
01769537	01769602	01769888	01770409		01771046
01769538	01769603	01769889	01770410	01770575	01771047
01769539	01769604	01769890	01770411	01770576	
01769540	01769605	01769891	01770412	01770577	01771100
01769541	01769606		01770413	01770578	01771101
01769542	01769607	01769903	01770414	01770579	01771102
01769543	01769608	01769904	01770415	01770580	01771103
01769544	01769609	01769905	01770416		01771104
01769545	01769610	01769906	01770417	01770806	01771105
01769546	01769611	01769907	01770418	01770807	
01769547	01769612	01769908	01770419	01770808	01771166
01769548	01769613	01769909	01770420	01770809	01771167
01769549		01769910	01770421	01770810	01771168
01769550	01769668	01769911	01770422	01770811	
01769551	01769669	01769912	01770423	01770812	01771252
01769552	01769670	01769914	01770424	01770813	01771253
01769553	01769671	01769915	01770425	01770814	01771254
01769554	01769672	01769916	01770426	01770815	01771256
	01769673	01769917	01770427	01770816	01771257
01769587	01769674	01769918	01770428	01770817	01771258
01769588	01769675	01769919	01770429	01770818	01771259
01769589	01769676	01769920	01770430	01770819	01771260
01769590	01769677	01769921	01770431	01770820	
01769591	01769678	01769922	01770432	01770821	
01769592	01769679	01769923	01770433	01770822	
01769593		01769924	01770434	01771026	
01769594	01769873	01769925	01770435	01771028	
01769595	01769874	01769926	01770436	01771031	
01769596	01769876	01769927	01770437	01771032	
01769597	01769877	01769928	01770438	01771033	
01769598	01769878		01770439	01771034	
01769599	01769879	01770118	01770440	01771035	
	01769880	01770119	01770441	01771036	
	01769881	01770120	01770442	01771037	
	01769882	01770121	01770443	01771038	
	01769883	01770122	01770444	01771039	
	01769884	01770123	01770445	01771040	
	01769885		01770446	01771041	
			01770447	01771042	
			01770448	01771043	

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**353 Design Level A, SM353-10 Serial Number List, Continued**

Serial Number Range for This Page: 01771316 to 01772633

01771316 to 01771356	01771436 to 01771618	01771619 to 01771677	01771678 to 01771832	01771936 to 01772393	01772434 to 01772633
01771316	01771436	01771619	01771678	01771936	01772434
01771317	01771437	01771620	01771679	01771937	01772435
01771318	01771438	01771621	01771680	01771938	01772436
01771319	01771439	01771622	01771681	01771939	01772437
01771320	01771440	01771623	01771682	01771940	01772438
01771321	01771441	01771624	01771683	01771941	01772439
01771322	01771442	01771625		01771942	01772440
01771323	01771443	01771626	01771706	01771943	
01771324	01771444	01771629	01771707	01771944	01772603
01771325	01771445	01771630	01771708	01771945	01772604
01771326	01771446	01771631	01771709	01771946	01772605
01771327	01771447		01771710	01771947	01772606
01771328	01771448	01771648	01771711	01771948	01772607
01771329	01771449	01771649	01771712	01771949	01772608
01771330	01771450	01771650	01771713	01771950	01772609
01771331	01771451	01771651	01771714	01771951	01772610
01771332	01771452	01771652	01771715	01771952	01772611
01771333	01771453	01771653	01771716		01772613
01771334	01771454	01771654	01771717	01771978	01772614
01771335	01771455	01771655		01771979	01772615
01771336	01771456	01771656	01771813	01771980	01772616
01771337	01771457	01771657	01771814	01771981	01772617
01771338		01771658	01771815	01771982	01772618
01771339	01771599	01771659	01771816	01771983	01772619
01771340	01771600	01771660	01771817	01771984	01772620
01771341	01771601	01771661	01771818	01771985	01772621
01771342	01771602	01771662	01771819	01771986	01772622
01771343	01771603	01771663	01771820	01771987	01772623
01771344	01771604	01771665	01771821	01771988	01772624
01771345	01771605	01771666	01771822	01771989	01772625
01771346	01771606	01771667	01771823		01772626
01771347	01771607	01771668	01771824	01772089	01772627
01771348	01771608	01771669	01771825		01772628
01771349	01771610	01771670	01771826	01772384	01772629
01771350	01771611	01771671	01771827	01772385	01772630
01771351	01771612	01771672	01771828	01772386	01772631
01771352	01771613	01771673	01771829	01772387	01772632
01771353	01771614	01771674	01771830	01772388	01772633
01771354	01771615	01771675	01771831	01772389	
01771355	01771617	01771676	01771832	01772390	
01771356	01771618	01771677		01772391	
				01772392	
				01772393	
				01772394	

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**353 Design Level A, SM353-10 Serial Number List, Continued**

Serial Number Range for This Page: 01773169 to 01773999

01773169 to 01773299	01773300 to 01773379	01773380 to 01773729	01773730 to 01773775	01773776 to 01773855	01773962 to 01773999
01773169	01773300	01773380	01773730	01773776	01773962
01773170	01773301	01773381	01773731	01773777	01773963
01773171	01773302	01773382	01773732	01773778	01773964
01773172	01773303	01773383	01773733	01773779	01773965
01773173	01773304	01773384	01773734	01773780	01773966
01773175	01773305	01773385	01773735	01773781	01773967
01773176	01773306	01773386	01773736	01773782	01773968
01773177	01773307	01773387	01773738	01773783	01773969
01773178	01773308	01773388	01773739	01773784	01773970
01773179	01773309	01773389	01773740	01773785	01773971
01773180	01773310		01773741	01773786	01773972
01773181	01773311	01773479	01773742	01773787	01773973
01773182	01773312	01773480	01773743	01773788	01773974
01773183	01773313	01773481	01773744	01773789	01773980
01773184	01773314	01773483	01773745	01773790	01773981
01773185	01773315	01773484	01773746	01773791	01773982
01773186	01773316	01773485	01773747	01773792	01773983
01773187	01773317		01773748	01773793	01773984
01773188	01773318	01773536	01773749	01773794	01773985
	01773319		01773750	01773795	01773986
01773276	01773320	01773555	01773753	01773796	01773987
01773277	01773321		01773754	01773797	01773988
01773278	01773322	01773576	01773755		01773989
01773279	01773323	01773577	01773756	01773837	01773990
01773280	01773324	01773578	01773757	01773838	01773991
01773281	01773325	01773579	01773758	01773839	01773992
01773282			01773759	01773840	01773993
01773283	01773366	01773720	01773760	01773841	01773994
01773284	01773367	01773721	01773761	01773842	01773995
01773285	01773368	01773722	01773762	01773843	01773996
01773286	01773369	01773723	01773763	01773844	01773997
01773287	01773370	01773724	01773764	01773845	01773998
01773288	01773371	01773725	01773765	01773846	01773999
01773289	01773372	01773726	01773766	01773847	
01773290	01773373	01773727	01773767	01773848	
01773291	01773375	01773728	01773768	01773849	
01773292	01773376	01773729	01773769	01773850	
01773293	01773377		01773770	01773851	
01773294	01773378		01773771	01773852	
01773295	01773379		01773772	01773853	
01773296			01773773	01773854	
01773297			01773774	01773855	
01773298			01773775		
01773299					

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**353 Design Level A, SM353-10 Serial Number List, Continued**

Serial Number Range for This Page:01774000 to 01775724

01774000 to 01774409	01774482 to 01774599	01774600 to 01774891	01775065 to 01775109	01775110 to 01775679	01775680 to 01775724
01774000	01774482	01774600	01775065	01775110	01775680
01774001	01774483	01774601	01775066	01775111	01775681
01774002	01774484	01774602	01775067	01775112	01775682
01774003	01774485	01774603	01775068	01775113	01775683
01774004	01774486	01774604	01775069		01775684
01774005	01774487	01774605	01775070	01775164	01775685
01774006	01774488	01774606	01775071	01775165	01775686
01774007	01774489	01774607	01775072		01775687
01774008	01774490	01774608	01775073	01775442	01775688
01774009	01774491	01774609	01775074	01775443	01775689
01774010	01774492	01774610	01775075	01775444	01775690
01774011	01774493	01774611	01775076	01775445	01775691
01774012	01774494	01774612	01775077	01775446	01775692
01774013	01774495	01774613	01775078		01775693
01774018	01774496	01774614	01775079	01775584	01775694
	01774497	01774615	01775080	01775585	01775696
01774222	01774498	01774616	01775081	01775586	01775697
01774223	01774499	01774618	01775082	01775587	01775698
01774224	01774500	01774619	01775083	01775588	01775699
01774225	01774501	01774620	01775084	01775589	01775700
01774226	01774502	01774621	01775085	01775590	01775701
01774228	01774503	01774622	01775086	01775591	01775702
01774229	01774504	01774623	01775087	01775592	01775703
01774230	01774505	01774624	01775088	01775593	01775704
01774231	01774506	01774625	01775089	01775594	01775705
01774232	01774507	01774626	01775091	01775595	01775706
01774233	01774508	01774627	01775092	01775596	01775707
01774234	01774509	01774628	01775093		01775708
01774236		01774629	01775094	01775667	01775709
01774237	01774549	01774630	01775095	01775668	01775710
01774238		01774631	01775096	01775669	01775711
01774239	01774590		01775097	01775670	01775712
01774240	01774591	01774684	01775098	01775671	01775713
01774241	01774592	01774685	01775099	01775672	01775714
01774242	01774594	01774686	01775100	01775673	01775715
01774243	01774595	01774887	01775101	01775674	01775716
	01774596	01774888	01775102	01775675	01775717
01774404	01774597	01774889	01775103	01775676	01775718
01774405	01774598	01774890	01775104	01775677	01775719
01774406	01774599	01774891	01775105	01775678	01775721
01774407			01775106	01775679	01775722
01774408			01775107		01775723
01774409			01775108		01775724
			01775109		

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**353 Design Level A, SM353-10 Serial Number List, Continued**

Serial Number Range for This Page: 01775725 to 01777230

01775725 to 01775999	01776000 to 01776369	01776370 to 01776475	01776537 to 01776799	01776800 to 01776931	01777202 to 01777230
01775725	01776000	01776370	01776537	01776800	01777202
01775726	01776001	01776371	01776538	01776801	01777208
01775727	01776002	01776372	01776539	01776802	01777211
01775728	01776003	01776373	01776540	01776803	01777214
01775729	01776004	01776374	01776542	01776804	
01775730	01776005	01776375	01776543	01776805	01777227
01775731	01776006	01776377	01776544	01776806	01777228
01775732		01776378	01776545	01776807	01777229
01775733	01776048	01776380	01776546	01776808	01777230
01775734	01776049	01776381	01776547	01776809	
01775735	01776050	01776382	01776548	01776811	
01775736	01776051	01776383	01776550	01776812	
01775737	01776052	01776384	01776551	01776813	
01775738	01776053	01776385	01776552	01776814	
01775739	01776054	01776386	01776553	01776815	
01775740	01776055	01776387		01776816	
01775741	01776056	01776388	01776564	01776817	
01775742	01776057	01776389	01776565	01776819	
01775743	01776059	01776390	01776566	01776820	
01775744	01776060	01776391	01776567	01776822	
01775745	01776061	01776392	01776568	01776823	
01775746	01776062	01776393	01776569		
01775747	01776064	01776395	01776570	01776847	
	01776065	01776396	01776571	01776848	
01775982	01776066	01776397	01776572	01776849	
01775983		01776398	01776574	01776850	
01775984	01776342	01776399	01776575	01776851	
01775985		01776400	01776576		
01775986	01776353	01776401	01776577	01776914	
01775987	01776354	01776402	01776578	01776915	
01775988	01776355	01776404	01776579	01776916	
01775989	01776356		01776580	01776917	
01775990	01776357	01776464	01776581	01776918	
01775991	01776358	01776465	01776582	01776919	
01775992	01776359	01776466	01776583	01776920	
01775993	01776360	01776467	01776584	01776921	
01775994	01776361	01776468	01776585	01776922	
01775995	01776363	01776469	01776587	01776924	
01775996	01776364	01776470		01776925	
01775997	01776365	01776471	01776796	01776926	
01775998	01776366	01776472	01776797	01776929	
01775999	01776367	01776473	01776798	01776930	
	01776368	01776474	01776799	01776931	
	01776369	01776475			

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**353 Design Level B, SM353-10 Serial Number List, Continued**

A blank cell in a column sequence indicates a gap of 10 or more in the serial numbers.

Serial Number Range for This Page: 82012711 to 82014A77

82012711 to 8201271F	8201270 to 8201272F	82012730 to 8201273F	82012740 to 82014A77
82012711	82012720	82012730	82012740
82012712	82012721	82012731	82012741
82012713	82012722	82012732	
82012714	82012723	82012733	82014A64
82012715	82012726	82012735	
82012716	82012727	82012738	82014A77
82012717	82012728	82012739	
82012718	82012729	8201273A	
82012719	8201272A	8201273B	
82012711	8201272B	8201273C	
8201271A	8201272D	8201273D	
8201271B	8201272E	8201273F	
8201271C	8201272F		
8201271D			
8201271E			
8201271F			