SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE 784

COLUMBIA, SOUTH CAROLINA 29218

O. W. DIXON, JR.
VICE PRESIDENT
NUCLEAR OPERATIONS

February 2, 1984

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, D.C. 20555

> Subject: Virgil C. Summer Nuclear Station Docket No. 50/395 Operating License No. NPF-12 Emergency Plan Procedure Revisions

Dear Mr. Denton:

South Carolina Electric and Gas Company (SCE&G) acting for itself and as agent for Scuth Carolina Public Service Authority (PSA) submits two (2) copies of the Revisions and Changes to the Emergency Plan Procedures (EPPs) as indicated below:

Table of Contents LPP-002, Revision 9 EPP-005, Revision 6

If you have any questions, please contact us at your convenience.

very truly yours,

OWD/fjc

c: V. C. Summer

T. C. Nichols, Jr./O. W. Dixon, Jr.

E. H. Crews, Jr.

E. C. Roberts

W. A. Williams, Jr.

D. A. Nauman

J. P. O'Reilly (2 copies)

Group Managers

O. S. Bradham

C. A. Price

C. L. Ligon (NSRC)

G. J. Braddick

D. J. Richards

NRC Resident Inspector

J. B. Knotts, Jr.

NPCF

File



VIRGIL C. SUMMER NUCLEAR STATION NUCLEAR OPERATIONS PROCEDURES

EMERGENCY PLAN PROCEDURES

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PROCEDURE NUMBER	PROCEDURE TITLE	EVISION	DATE ISSUED
EPP-001	Activation and Implementation of Emergency Plan	6	11/9/83
EPP-002	Communication and Notification	9	1/26/84
EPP-003	In-Plant Radiological Surveying	3	6/1/83
EPP-004	Out-of-Plant Radiological Surveying	4	5/25/83
EPP-005	Offsite Dose Calculations	6	1/24/84
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EPP-009	On-Site Medical	2	7/27/82
EPP-010	Personnel/Vehicle Decontamination	3	11/9/83
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EPP-013	Fire Emergency	3	5/25/83
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EPP-016	Emergency Facilities Activation & Evacuat:	ion 4	11/9/83
EPP-017	Post-Recovery and Re-Entry	4	11/9/83
EPP-018	Emergency Training and Drills	3	11/10/83
EPP-019	Emergency Equipment Checklist	4	6/1/83
EPP-020	Emergency Personnel Exposure Control	3	11/14/83

^{*} Safety Related Procedure

PROCEDURE NUMBER	PROCEDURE TITLE	REVISION	DATE ISSUED
EPP-021	Activation of the Early Warning Siren System (EWSS)	5	5/25/83
EPP-022	Verification of Communications Operabilit	у 2	5/25/83

SOUTH CAROLINA ELECTRIC AND GAS COMPANY VIRGIL C. SUMMER NUCLEAR STATION

NUCLEAR OPERATIONS

NUCLEAR CPERATIONS

COPY No..... 157

EMERGENCY PLAN PROCEDURE

EPP-002

COMMUNICATION AND NOTIFICATIONS

REVISION 9

DECEMBER 7, 1983

SAFETY RELATED

DISCIPLINE SUPERVISOR 1-25-84

OSB salham 1/25/84
APPROVAL AUTHORITY Date

JAN 2 6 1984 DATE ISSUED

RECORD OF CHANGES LAFE DATE CHANGE TYPE CHANGE TYPE DATE CANCELLED CHANGE APPROVED NO. CANCELLED NO. CHANGE APPROVED

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EPP-002 ATTACHMENT I PAGE 1 OF 2 REVISION 9

WARNING MESSAGE: NUCLEAR FACILITY TO STATE/LOCAL GOVERNMENT

Part I

1.	This is the Summer Nuclear St	ation.	
2.	My name is		
	This message (number):	gency.	Initial Follow-up Time message giv
4.	My telephone number/extension 345-2620.	is: <u>345-</u>	5209 X-4227 or
5.	You may call back at the end verification.	of the mes	sage for
6.	The class of the emergency is		Notification of Unusual Event Alert Site Emergency General Emergency
7.	This classification of emerge (a.m./p.m.) on (da	ency was de	eclared at:
8.	The intiating event causing is:	the emergen	ncy classification
9.	The emergency condition:	rel mat pla (b) Inv for rel	es not involve the lease of radioactive terials from the ant. Tolves the potential a release, but no lease is occurring.
			volves a release of dioactive material.
10.	We recommend the following productive act time. (b) People living in	ion is reco	action: ommended at this remain indoors with
	the doors and win	lows closed	

EPP-002 ATTACHMENT I PAGE 2 OF 2 REVISION 9

	(d	People living in zones evacuate their homes and businesses. Pregnant women and children in zones remain indoors with the doors and windows closed. Pregnant women and children in zones evacuate to the nearest reception center. Other recommendations:
11.	There wil	l be: A followup message No further communications
12.	(8	this message: a) Reports an actual emergency b) Is an exercise message
3.	*** Inf	e any questions? Cormation for MEDIA COORDINATOR ONLY! *** ant Status
		tripped/controlled shutdown, rate , present pwr. level
	a. b.	From
		ANY OTHER QUESTIONS THE MEDIA COORDINATOR HAS SURE YOUR ANSWERS ARE CORRECT!!

INITIAL NOTIFICATION

UNUSUAL EVENT

AGENCY/PERSONNEL	PAGER NUMBER	R HOME	SITE	PERSON NOTIFIED	TIME
1. Management Duty Supervisors (per Duty Roster)					
Ollie Bradham	603	798-1359	4040		
John Connelly	613	798-2719	4257		
Ken Woodward	663	798-7761	4220		
Bruce Williams	623	8-9-359-4044	4221		
Mel Browne	633	732-0897	4140		
Mike Quinton	643	8-9-356-1980	4044		
Bob Croley	653	781 -7069	4042		
2. *S.C. Dept. of Health & Environmental Control, Bureau of Radiological Health		758-5531 or 758-5548	N/A		
3. Emerg. Preparedness Division		758-2826	N/A		
4. *NRC		Attachment IVA ial Notificatio		002 for NRC	
5. Media Coord. (Mgr., Nuclear Info.)		Home	Offic	<u>ce</u>	
1) Becky McSwain	703	8-9-359-3510	5049		-
2) 1st Alt W. M. Lide, Jr.	703	772-1830	748-34 771-68	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	-
6. Site Services Manager-Bob Stough		781 – 8711 781 – 9128	345-54	422	
7. Institute of Nuclear Power Operations (INPO)		(404)953 - 0904 (404)953 - 0922	N/A		
8. American Nuclear Insurers (ANI)		Attachment IVB fication	of EPP-	002 for ANI	
NOTIFICATIONS COMPLETE:			1		

INITIAL NOTIFICATION

EPP-OO2 ATTACHMENT IIIB PAGE 1 OF 1 REVISION 9

ALERT

	PAGER NUMBER	HOME	SITE	PERSON NOTIFIED	TIME
1. Management Duty Supervisors (per Duty Roster)					
Ollie Bradham	603	798–1359	4040		
John Connelly	613	798-2719	4257		
Ken Woodward	FT	798-7761	4220		
Bruce Williams	623	8-9-359-4044	4221		
Mel Browne	633	732-0897	4141		
Mike Quinton	643	8-9-356-1980	4044		
Bob Croley	653	781 -7069	4042		
NOTE: To contact additional Emer Memorandum No. 25.	rgency I	Response Personn	el refe	r to Policy	
2. *S.C. Dept. of Health & Environmental Control, Bureau of Radiological Health		758-5531 or 758-5548	N/A		
3. Emerg. Preparedness Division		758-2826	N/A		
4. *NRC		Attachment IVA tial Notification		002 for NRC	
5. Media Coord. (Mgr., Nuclear Info	.)	Home	Offi	се	
1) Becky McSwain	703	8-9-359-3510	5049		
2) 1st Alt W. M. Lide, Jr.	703	772-1830	748–3 771 <i>–</i> 6		
6. Site Services Manager-Bob Stough		781 – 8711 781 – 9128	345-5	422	
7. Institute of Nuclear Power Operations (INPO)		(404)953-0904 (404)953-0922	N/A		
8. Fairfield Pumped Storage Facility	у	345-5830	N/A		
9. American Nuclear Insurers (ANI)	1900000	Attachment IVB ification	of EPP-	002 for ANI	
NOTIFICATIONS COMPLETE:	La cra	A PER POR	DAME		
*Dedicated Line Also Exists. CALLER	'S SIGN	ATUKE	DATE		

INITIAL NOTIFICATION

EPP-002 ATTACHMENT IIIC PAGE 1 OF 1 REVISION 9

"SITE EMERGENCY"

	"	SITE EM	ERGENCY"			
AGENCY/PEPSONNEL		PAGER NUMBER	PAGER NUMBER HOME		NAME OF PERSON NOTIFIED TIME	
1.	Management Duty Supervis (per Duty Roster)	ors				
	Ollie Bradham	603	798-1359	4040		
	John Connelly	613	798-2719	4257		
	Ken Woodward	663	798-7761	4220		
	Bruce Williams	623	8-9-359-4044	4221		
	Mel Browne	633	732-0897	4141		
	Mike Quinton	643	8-9-356-1980	4044		
	Bob Croley	653	781-7069	4042		
	NOTE: To contact ad Policy Memora	ditions andum No	al Emergency Respo	nse Pers	onnel, refer to	
2.	*S.C. Dept. of Health & Environmental Control, Bureau of Radiological Health		758-5531 or 758-5548	N/A		
3.	Emerg. Preparedness Div	ision	758-2826	N/A		
4.	*NRC		ee Attachment IVA			
5.	Media Coord. (Mgr., Nuclear Info.)		Home	Office		
	1) Becky McSwain	703	8-9-359-3510	5049		
	2) 1st Alt W.M. Lide	e, Jr.	703 772-1830	748-3420 771-6804		
6.	Site Services Manager - Bob Stough		781-8711 781-9128	345-5422		
7.	Institute of Nuclear Por Operations (INPO)	wer	(404)953-0904 (404):53-0922	N/A		
8.	Fairfield Pumped Storag Facility	е	345-5830	N/A		
		~	ee Attachment IVB	of EPP-	002 for ANT	
9.	American Nuclear Insure		otification.	01 111	702 101 1111	

EPP-002 ATTACHMENT IIID PAGE 1 OF 2 REVISION 9

INITIAL NOTIFICATION

"GENERAL EMERGENCY"

AGE	NCY/	PERSONNEL	PAGER NUMBER	HOME	SITE	NAME OF PERSON NOTIFIED TIME
1.		agement Duty Supervis r Duty Roster)	sors			
	1)	Ollie Bradham	603	798-1359	4040	
	2)	John Connelly	613	798-2719	4257	
	3)	Ken Woodward	663	798-7761	4220	
	4)	Bruce Williams	623	8-9-359-4044	4221	
	5)	Mel Browne	633	732-0897	4141	
	6)	Mike Quinton	643	8-9-356-1980	4044	
	7)	Bob Croley	653	781-7069	4042	
	*0	NOTE: To contact act to Policy Mer	dditional morandum !	Emergency Resp No. 25.	oonse Per	sonnel, refer
2.	En v Bur	C. Dept. of Health & ironmental Control, eau of Radiological 1th		758-5531 or 758-5548	N/A	
3.	*NR	С	See Ini	Attachment IVA	A of EPP- ion Requi	002 for NRC rements
4.	Med Inf	ia Coord. (Mgr., Nuc.	lear	Home	Office	
	1)	Becky McSwain	703	8-9-359-3510	5049	
	2)	1st Alt W.M. Lide	e, Jr.	703 772-1830	748-3420 771-6804	
5.		e Services Manager - Stough		781-8711 781-9128	345-5422	
6.		rfield Pumped Storagility	е	345-5830	N/A	
7.	Di Ad	ergency Preparedness vision- jutant General's Off tate EOC)		758-2826	N/A	
*De	edica	ted Line Also Exists				

EPP-002 ATTACHMENT IIID PAGE 2 OF 2 REVISION 9

INITIAL NOTIFICATION

"GENERAL EMERGENCY"

AGENCY/PERSONNEL	NORMAL	SITE	NAME OF PERSON NOTIFIED	TIME
8. *Fairfield County	5-635-5511	N/A		
9*Newberry County	66-276-4295	N/A		
10. *Richland County	9-254-9296	N/A		
11. *Lexington County	8-9-359-8141	N/A		
12. Institute of Nuclear Power Operations (INPO)	(404)953 - 0904 (404)953 - 0922	N/A		_
13. American Nuclear Insurers	See Attachment IN Notification.	VB of EPP	-002 for A	NI

NOTIFICATIONS	COMPLETE:		
		Caller's Signature	Date

^{*}Dedicated Line Also Exists.

EPP-002 ATTACHMENT IVA PAGE 1 OF 4 REVISION 9

NRC ONE HOUR NOTIFICATION

The NRC shall be notified within 1 hour of Declaration of an Emergency in accordance with Pages 2 through 4 of this attachment.

		NORMAL	EASY ACCESS	PERSON CONTACTED
1.	NRC - Bethesda, Md.	Dedicated Phone	N/A	
	Bethesda Central	hone system to NRC (Office). (202) 951	-0550	nter (Via
2.	NRC - Resident Inspec		Yes	No
	Bill Hehl	4027 (N.O. Ext)	(later) Home Phon	Te NC.
	or	345-5683	748-5406 Beeper No	
	CALLERS SIGNATURE	DATE	TIME	

EPP-002 ATTACHMENT IVA PAGE 2 OF 4 REVISION 9

NRC ONE HOUR NOTIFICATION

This is the Summer Nuclear Plant in Region II. My name is Our phone number is (803)345-5209 or (803)345-2620. B. Event Classification:	
Our phone number is (803)345-5209 or (803)345-2620. B. Event Classification:	
Our phone number is (803)345-5209 or (803)345-2620. B. Event Classification:	
We are now in o(n)	
We are now in a(n) EVENT CLASSIFICATION which was declared at TIME	
C. REACTOR EVENT:	
Power prior to event Power at time of	report
Trip? Initiating Signal	
SI or ECCS? Initiating Signal	
ESF actuation?	
D. EVENT DESCRIPTION AND CAUSE	
Radioactive releases? (Quantify)	
Other major problems	
DELVE ARTONS (DDDS DDD DA DDS DA	
E. PLANT ACTIONS/PRESS RELEASES?	
F. NOTIFICATIONS?	
STATE PLANT MGMT.	
LOCALS OTHER	
NRC RESIDENT OTHER	

EPP-002 ATTACHMENT IVA PAGE 3 OF 4 REVISION 9

NRC ONE HOUR NOTIFICATION
Part II-Complete for all ALERT, SITE AREA, and GENERAL emergencies

Taken	
Planned	
Property Damage	
adioactivity Released (or Inchease	ed Release):
Liquid/Gas?Location/Source	e of Release Elevation
Release Monitored? Dura	ount of Release
% Tech. Specs.	out of Refease
narranged Padiation Levels in a Pl	ant: Location(s)
Radiation level(s)	ant: Location(s) Areas Evacuated
Maximum site boundary dose rate	Location
Integrated dose	
eteorology:	
Wind Direction from	
Wind Speed	(Meter/sec or miles/hr) F) Temperature (°C or °F)
T (°C or	F) Temperature(C or F)
Stability Class A B C D E F G Raining (Yes/No)	
210,0000	Dose Rates Integrated Dose
2 mi	(WB/I) (WB/I) (WB/I)
5 mi 10 mi	(WB/I) (WB/I) (WB/I)
Sectors	(WB/I) (WB/I)
Contamination (Surface): inp	lantonsiteoffsite
Reactor Operations: Reactor System Status	Power Level
Pressure Temp	Flow (pumps on)
Cooling ModeECCS	Operating/Operable
Containment Status	
Containment Isolated?	Containment Temp
Containment Press	Containment Radiation R
Panativity Control	Leak RateR/hr
Reactivity Control Control Rods Inserted	Status of Emer. Boration System
Control Road Inserted	poatus of puer. Poration passem

EPP-002 ATTACHMENT IVA PAGE 4 OF 4 REVISION 9

INCIDENT NOTIFICATION INFORMATION Part II

	2/0 = 3 30
Feedwater Source/Flow	S/G Isolated?
Electrical Dist. Status:	
Normal Offsite Power	Available?
Major Busses/Loads Lost	Loaded?
urity/Safeguards:	i?Site Evacuated?
urity/Safeguards:	ter, etc.)?
arity/Safeguards: Bomb Threat: Search Conducted Search Results Extortion: Source (Phone, lett Location of Letter Intrusion: Insider?	ter, etc.)? Outsider?
arity/Safeguards: Bomb Threat: Search Conducted Search Results Extortion: Source (Phone, lett Location of Letter Intrusion: Insider?	ter, etc.)?

OFF-SITE EMERGENCY SERVICES

1	AGENO	CY/PERSONNEL	PHO	<u>NE</u>	NAME OF PERSON NOTIFIED	TIME
Α.	Comp	pany Physicians (Pinner Clinic)				
		Carrol A. Pinner III M.D Prima Harriet E. Pinner, M.D 2nd Alt	W. Committee of the com	- 7475 (24 - 7475	hrs.)	
В.	Hos	pital Facilities				
	1)	Richland Memorial Hospital	765	- 7561		
		Give the following information:				
		This is the Virgil C. Summer Nucl Station.	ear			
		This is a Drill This is not	a Drill			
		We havecontaminated/non-coinjured person being transported facility.	ontaminated to your			
		Extent of injuries, as known				
	2)	Radiation Emergency Assistance				
		Center Training Site (Reacts)	(615)576 (615)576 hour-(615)482	-3131	eper 241	
C.	Amb	ulance Service				
	1a)	Energency Medical Services of Fairfield County	635 – 55			
	1b)	Alert MAST for standby transportation.	796 – 00			
	2)	U.S. Army MAST Operations	796-00 796-00			
	NOT	E: Alert Security of Emergency Vo Off-Site Emergency Services as	ehicle arrival	l as soon	as request(s)	for
			E	ct. 4290 or 4291		

OFF-SITE EMERGENCY SERVICES

GENO	CY/PERSONNEL	PHOL	WE	NAME OF PERSON NOTIFIED	TIME
	Give the following inform	nation for items 1	a and 2 above		
	This is a Drill This	is not a Drill _			
	We have contaminate injured person(s) require Richland Memorial Hospita must enter the site via t (denote route to be taken should land at the primar route to be taken)	ing transportation al. (The ambulance the main gate, usin) or the helicopt	to e ng er		
	Extent of injuries, as k	nown			
NSS	S Supplier/A.E. Title	Name	Offic	e Home	HHL
1.	Site Service Manager	Bob Stough	345-542	2/781-8711/7	81-9128
	Notes: (1) The area coo (2) The phone be	de of the above pheeper number is (8	one numbers i 03)-256-9965	s (803)	
2.	Operating Plant Service	D.J. Richards	236-649	1 /327-8178	
	Manager 1st Alternate 2nd Alternate	Tim Sullivan Rich Faix	256 - 762 256 - 314	25/856 – 7562 2/863 – 4665	
3.	Service Response	Tom Milto	256-375	64/793-7512/7	95-2040
	Manager 1st Alternate 2nd Alternate	Bob Stokes John Miller	256 - 588 256 - 587	81 /325-1128/3 79 /325-1157 /3	527-8214 527-8238
	Emergency Response Director	Tom Anderson	256-709	93/327-8289/3	527-7221
5.	Emergency Response Deputy Director	Ron Lehr	256-540	01/373-1699/8	356-7613
6.	Emergency News Communications	Mike Mangan	373-432	28/828-2543/8	328-0465
	Note: Unless indicated area code other numbers	otherwise, all pl than 412 is shown	none numbers a	are area code to the office	e 412. Where are, home, and HAI
2)	GAI				
	(Normal Working Hours)	(215) 77° (215) 92° (215) 77°	5 – 2600 9 – 3880 5 – 1293		

D.

EPP-OO2 ATTACHMENT V PAGE 3 OF 3 REVISION 9

OFF-SITE EMERGENCY SERVICES

1	AGENCY/ ARSONNEL	PHONE	PE	E OF RSON CIFIED TI	ME
E.	Fire Services	635-5511			
	1) Fairfield County Fire Services				
	Give the following information:		_		_
	This is the Virgil C. Summer Nu Station.	nclear			
	This is a Drill This is no	ot a Drill			
	We request fire fighting assist at the Summer Nuclear Station. truck must enter via the main a (denote route to be taken)	The fire			
F.	Local Law Enforcement (off-normal	635-5511 635-2931 hours) 635-4141	or		
G.	National Weather Service (Backup to	Load Dispatcher	for weather	information).	
	1) Columbia -	794 – 2593 765 – 5501	or 796-4473		

SOUTH CAROLINA ELECTRIC AND GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION

NUCLEAR OPERATIONS

NUCLEAR OPERATIONS

COPY No.... 157

EMERGENCY PLAN PROCEDURE

EPP-005

OFFSITE DOSE CALCULATIONS

REVISION 6

DECEMBER 7, 1983

SAFETY RELATED

DISCIPLINE SUPERVISOR 1-11-84
Date

APPROVAL AUTHORITY

JAN 2 4 1984 DATE ISSUED

RECORD OF CHANGES

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NO. CHANGE APPROVED CANCELLED NO. CHANGE APPROVED CANCELLED

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RECOMMENDED PROTECTIVE ACTIONS TO REDUCE WHOLEBODY AND THYROID DOSE FROM EXPOSURE TO A GASEOUS PLUME

Projected Dose (Rem) to the Population	Recommended Actions	Comments
Wholebody < 1 Thyroid < 5 Particulate <1.5x10-7 Ci/ml	(b) No planned protective actions. State may issue an advisory to seek shelter and await further instruction. Monitor environmental radiation levels.	Previously recommended protec-
10-7 <u>uCi</u> ml	Seek shelter as a minimum. Consider evacuation. Evacuate unless constraints make it impractical. SEE PAGE 2 OF 2. Monitor environmental radiation levels Control access.	If constraints exist, special consideration should be given for evacuation of children and pregnant women.
Wholebody 5 and above Thyroid 25 and above Farticulate 7.5x10-7 u Ci and above ml	Conduct mandatory evacuation. SEE PAGE 2 OF 2. Monitor environmental radiation levels and adjust area for mandatory evacuation based on these levels. Control access.	Seeking shelter would be an alternative if evacuation were not immediately possible
Projected Dose (Rem) to Emergency Team Workers		
Wholebody 25	Control exposure of emergency team members to these levels except for lifesaving missions. (Appropriate controls for emer- gency workers, include time limitations, respirators and stable iodine.)	Although respirators and stable iodine should be used where effective to control dose to emergency team workers, thyroid dose may not be a limiting
Wholebody 100	Control exposure of emergency team members performing lifesaving missions to this level. (Control of time of exposure will be most effective.)	factor for lifesaving missions.

(a) These actions are recommended for planning purposes. Protective action decisions at the time of the incident must take existing conditions into consideration.

(b) At the time of the incident, officials may implement low-impact protective actions in keeping with the principle of maintaining radiation exposures as low as reasonably achievable.

EPP-005 ATTACHMENT XII PAGE 2 OF 2 REVISION 6

ESTIMATED EVACUATION TIMES FOR EMERGENCY PLANNING ZONES

Recommend evacuation of the public within a zone when projected doses are 1 Rem or greater whole body, or 5 Rem or greater thyroid, unless restraints make evacuation impractical.

If the plume will arrive within the zone before evacuation can be completed, recommend sheltering.

ZONE	ESTIMATED POPULATION	EVACUATION TIMES AVERAGE WEATHER	(MINUTES) ADVERSE WEATHER
A-0 A-1 A-2 B-1 B-2 C-1 C-2 D-1 D-2 E-1 E-2 F-1	312 396 960 284 528 304 832 816 712 658 2524 268 800	138 166 149 142 112 132 112 116 107 137 153 133	167 199 199 166 128 155 128 135 121 165 182 158 162