VOYAGER
Space Flight Operations Schedule (SFOS)

Issue Date: May 4, 2021
For the Period: 05/06/21 to 05/24/21

Legend:

V = R/T Command (Last chance or Contingency)
▼ = R/T Command (Scheduled)
* = Result of R/T Command
n = (where n = 1,2,3 ..) Special Note, see bottom of page
A = Arrayed station
B = BLF
D = Downlink only pass
H = High Power Transmitter
R = Array Reference Antenna
T = TLC Uplink
U = Uplink only pass
[o] = Ramp-through

Posted at https://voyager.jpl.nasa.gov/mission/status/

02/27/19
<table>
<thead>
<tr>
<th><strong>VGR COVERAGE</strong></th>
<th><strong>ON CALL</strong></th>
<th><strong>VGR</strong></th>
<th><strong>ON CALL</strong></th>
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<tbody>
<tr>
<td><strong>NOTES</strong></td>
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<tr>
<td>[1] S/C 32=EL-40 @ 22:58 XB=40(30)</td>
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<tr>
<td>[2] S/C 32=CR-5T @ 02:29 XB=160(32)</td>
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<tr>
<td>0000</td>
<td>FDS MODE CR-5T 160(32)</td>
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**S/C 31**

- **INITIAL CONDITIONS**
- **RTLT**: 42h 7m 32s
- **CCSL**: A119
- **FDSS**: 11AF
- **TWNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

**FDS MODE XB DATA RATE(MI)**

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<th><strong>CR-5T</strong></th>
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**31 DSN COVERAGE**

| 14 [D] | 0915 |

**32 DSN COVERAGE**

| 1005 | 43 [D] | 1405 | 40 | 2230 | 43 [D] | 0430 |

| **S/C 32**
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**INITIAL CONDITIONS**

- **RTLT**: 35h 5m 48s
- **CCSL**: B191
- **FDSS**: 11AF
- **TWNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

**FDS MODE XB DATA RATE(MI)**

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**EL-40 2258**

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## S/C 31

### INITIAL CONDITIONS

- **RTLT:** 42h 7m 32s
- **CCSL:** A119
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

### RTLT

- 1200 RTLT 42h 7m 34s
- 0000 RTLT 42h 7m 36s

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### DSN COVERAGE

#### 31 DSN COVERAGE

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<td>1600</td>
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## S/C 32

### INITIAL CONDITIONS

- **RTLT:** 35h 5m 46s
- **CCSL:** B191
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

### RTLT

- 1200 RTLT 35h 5m 46s
- 0000 RTLT 35h 5m 44s

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### S/C 31

**INITIAL CONDITIONS**
- RTLT: 42h 7m 36s
- CCSL: A119
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: 01/10/25
- GYROS: OFF

**FDS MODE**

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**31 DSN COVERAGE**

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**32 DSN COVERAGE**

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**S/C 32**

**INITIAL CONDITIONS**
- RTLT: 35h 5m 42s
- CCSL: B191
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: 01/10/25
- GYROS: OFF

**FDS MODE**

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**XB DATA RATE (MI)**

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**VGR COVERAGE**

**NOTES**

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**ISSUE DATE:** SATURDAY MAY 8, 2021

**NOTES**

- VGR ON CALL
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**MONDAY**

**MAY 10, 2021**

**130-131**

**S/C 31**

**INITIAL CONDITIONS**

- **RTLTL**: 42h 7m 42s
- **CCSL**: A119
- **FDST**: 11AF
- **TWCNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

**FDS MODE**

**XB DATA RATE(MI)**

**CR-5T**

**160(32)**

**31 DSN COVERAGE**

- **1200**: RTLT 42h 7m 42s
- **0000**: RTLT 42h 7m 44s

**32 DSN COVERAGE**

- **1200**: RTLT 35h 5m 34s
- **0000**: RTLT 35h 5m 34s

**S/C 32**

**INITIAL CONDITIONS**

- **RTLTL**: 35h 5m 36s
- **CCSL**: B191
- **FDST**: 11AF
- **TWCNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

**FDS MODE**

**XB DATA RATE(MI)**

**CR-5T**

**160(32)**

**VGR COVERAGE**

**NOTES**

**ON CALL**

**UTC:**

| 0 1 2 3 4 5 6 7 | 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 |

**UTC:**

| 0 1 2 3 4 5 6 7 | 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 |

**MAY 10**

**Page 5 of 19**

**MAY 11**
### S/C 31

**INITIAL CONDITIONS**

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- **RTLT:** 42h 7m 46s
- **CCSL:** A119
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

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### VGR COVERAGE

- **ON CALL**
- **VGR**
- **ON CALL**

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**ISSUE DATE:** 05/04/21 13:56

**TUESDAY**

**MAY 11, 2021**

**131-132**

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**NOTES**

- 131-132
- 0400 14[D]
- 1045
- 0945
- 1205 35[DA] 1545
- 1205 36[DAR] 1545
- 2238 GYRO CONDITIONING
- 2238 GYROS OFF
- 2247 BAY 1 HTR ON
- 0000 RTLT 42h 7m 46s
- 0000 RTLT 35h 5m 32s
WEDNESDAY
MAY 12, 2021
132-133

S/C 31
INITIAL CONDITIONS
RTLT: 42h 7m 48s
CCSL: A119
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

FDS MODE
XB DATA RATE(MI)

31 DSN COVERAGE
14 [D] 0800

2200 63 [D] 0200

32 DSN COVERAGE

S/C 32
INITIAL CONDITIONS
RTLT: 35h 5m 30s
CCSL: B191
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

FDS MODE
XB DATA RATE(MI)

32 DSN COVERAGE

VGR COVERAGE
ON CALL | VGR | ON CALL

NOTES
[1] B192 BACKUP U/L SUPPORT HP DRV ON >= 11:10

ON CALL

CR-5T
160(32)

CR-5T
160(32)

ON CALL
### S/C 31
#### INITIAL CONDITIONS
- RTLT: 42h 7m 54s
- CCSDL: A119
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

#### FDS MODE
- XB DATA RATE (MI): CR-5T 160(32)

#### 31 DSN COVERAGE

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### S/C 32
#### INITIAL CONDITIONS
- RTLT: 35h 5m 26s
- CCSDL: B191
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

#### FDS MODE
- XB DATA RATE (MI): CR-5T 160(32)

#### 32 DSN COVERAGE

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### NOTES
- ON CALL

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<td>XB: LOW</td>
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<td>PYR: .05/.10/.25</td>
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<p>| FDS MODE |</p>
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| UTC: |
| 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 |

ISSUE DATE: 05/04/21 13:56

FRIDAY
MAY 14, 2021
134-135

1200 RTLT 42h 7m 56s
0000 RTLT 42h 8m 0s

1200 RTLT 35h 5m 22s
0000 RTLT 35h 5m 22s

ON CALL
### INITIAL CONDITIONS

**S/C 31**
- RTLT: 42h 8m 0s
- CCSL: A119
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**S/C 32**
- RTLT: 35h 5m 22s
- CCSL: B191
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

### DSN COVERAGE

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<td>0219</td>
<td>SHUNT POWER TEST (20:27) 0243</td>
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<tr>
<td>0319</td>
<td>LECP MAIN SUPPLEMENTAL HEATER OFF (20:51) 0319</td>
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<tr>
<td>0420</td>
<td>CCS DIAG (22:28) 0450</td>
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### VGR COVERAGE

- ON CALL
- VGR
- ON CALL

### NOTES

**TLC (SHORT-FORM)**
- 0011 GS-4B 0012
- 0147
- 0225
- 0324
- 0430
- 0547
- 0630
- 0743
- 0847
- 0943
- 1047
- 1143
- 1240
- 1336
- 1432
- 1528
- 1624
- 1720
- 1816
- 1912
- 2008
- 2104
- 2200
- 2300

**SHUNT POWER TEST (20:27) 0219**

**LECP MAIN SUPPLEMENTAL HEATER OFF (20:51) 0243**

**CCS DIAG (22:28) 0450**

**CR-5T (ON CALL)**
### S/C 31
**INITIAL CONDITIONS**
- **RTLT:** 42h 8m 10s
- **CCSL:** A119
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF
- **FDS MODE:** 31
- **XB DATA RATE (MI):** CR-5T
- **31 DSN COVERAGE:**
  - **0735** 14 [D]
  - **0335-0615** 14 [D]
  - **2000** 63 [D]

### S/C 32
**INITIAL CONDITIONS**
- **RTLT:** 35h 5m 16s
- **CCSL:** B191
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF
- **FDS MODE:** 32
- **XB DATA RATE (MI):** CR-5T
- **32 DSN COVERAGE:**
  - **0925** 43 [C]
  - **1425**

### VGR COVERAGE
- **ON CALL**
- **VGR**
- **ON CALL**

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**NOTES**

**UTC:**

- **MAY 17**
- **MAY 18**
| PDT: | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| UTC: | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

**TUESDAY**

MAY 18, 2021

138-139

**S/C 31**

INITIAL CONDITIONS

RTL: 42h 8m 14s
CCSL: A119
FDST: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

**FDS MODE**

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**31 DSN COVERAGE**

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**NOTES**

CR-5T 160(32)

---

**TUESDAY**

MAY 18, 2021

138-139

**S/C 32**

INITIAL CONDITIONS

RTL: 35h 5m 12s
CCSL: B192
FDST: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

**FDS MODE**

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**32 DSN COVERAGE**

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<tbody>
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<td>0000 RTLT 35h 5m 12s</td>
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**NOTES**

CR-5T 160(32)
**WEDNESDAY**

**MAY 19, 2021**

139-140

---

**S/C 31**

**INITIAL CONDITIONS**

- RTLT: 42h 8m 20s
- CCSSL: A119
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

---

**FDS MODE**

**XB DATA RATE (MI)**

---

**31 DSN COVERAGE**

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**32 DSN COVERAGE**

---

**S/C 32**

**INITIAL CONDITIONS**

- RTLT: 35h 5m 10s
- CCSSL: B192
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

---

**FDS MODE**

**XB DATA RATE (MI)**

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**VGR COVERAGE**

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**NOTES**

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### Initial Conditions

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### DSN Coverage

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### VGR Coverage

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### Notes

**1745 TAPPOS 1923**

- **2047 2048 PWS/RH**
- **2059 TAPPOS 2223**

**1227 DUMMY (5 MIN BRACKETED 23:33)**

- **1525 1547 SHUNT POWER TEST**
ISSUE DATE: 05/04/21

PDT:

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
| 141-142 |

UTC:

| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| S/C 31 INITIAL CONDITIONS |
| RTLT: 42h 8m 30s |
| CCL: A119 |
| FDSL: 11AF |
| TWNC: ON |
| SB: OFF |
| XB: LOW |
| PYR: .05/.10/.25 |
| GYROS: OFF |
| 1200 RTLT 42h 8m 32s |
| 0000 RTLT 42h 8m 36s |
| SHUNT POWER TEST (22:29) |
| U/L 0445 |
| TLC (SHORT-FORM) |
| CR-5T |
| FDS MODE XB DATA RATE(MI) |

31 DSN COVERAGE

| 14 [D] 0825 |
| 0335 14 [T] |
| 2015 63 [D] 0015 |

32 DSN COVERAGE

| 0910 43 [D] 1345 |
| 2225 43 [D] 0330 |

S/C 32 INITIAL CONDITIONS

| RTLT: 35h 5m 6s |
| CCL: B192 |
| FDSL: 11AF |
| TWNC: ON |
| SB: OFF |
| XB: LOW |
| PYR: .05/.10/.25 |
| GYROS: OFF |
| 1200 RTLT 35h 5m 6s |
| 0000 RTLT 35h 5m 6s |
| CR-5T |
| FDS MODE XB DATA RATE(MI) |

VGR COVERAGE

| ON CALL |
| VGR |
| ON CALL |

NOTES

| UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 |
| MAY 21 |

Page 16 of 19
### INITIAL CONDITIONS

**S/C 31**
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF
- **FDS MODE:**
  - **XBR DATA RATE (MI):** 160
- **ISSUE DATE:** SATURDAY MAY 22, 2021
- **INITIAL CONDITIONS**
  - **FDSL:** 11AF
  - **31 DSN COVERAGE**
    - 1200 RTLT 42h 8m 36s
    - 0000 RTLT 42h 8m 42s

**S/C 32**
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF
- **FDS MODE:**
  - **XBR DATA RATE (MI):** 160
- **32 DSN COVERAGE**
  - 1200 RTLT 35h 5m 6s
  - 0000 RTLT 35h 5m 4s

### NOTES
- **VGR COVERAGE:** ON CALL
  - **FDS MODE:**
    - **XBR DATA RATE (MI):**
      - 160
- **TLC (SHORT-FORM):**
  - 2045 TAPPOS
  - 2347 GS-4B
  - 2348 PWS/RH
  - 2359 0109 TAPPOS

---

**ISSUE DATE:** 05/04/21
**Page 17 of 19**
### S/C 31
**INITIAL CONDITIONS**
- RTLT: 42h 8m 42s
- CCSL: A119
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**
- XB DATA RATE(MI)

**31 DSN COVERAGE**

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**32 DSN COVERAGE**

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### S/C 32
**INITIAL CONDITIONS**
- RTLT: 35h 5m 4s
- CCSL: B192
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**
- XB DATA RATE(MI)

**32 DSN COVERAGE**

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**NOTES**
- **ON CALL**
- **VGR**
- **ON CALL**

**ISSUE DATE:** MAY 23, 2021

**RTLT:** 42h 8m 42s
**CCSL:** A119
**TWNC:** ON
**SB:** OFF
**XB:** LOW
**PYR:** .05/.10/.25
**GYROS:** OFF

**FDS MODE**
- XB DATA RATE(MI)

**31 DSN COVERAGE**

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**NOTES**
- **ON CALL**
- **VGR**
- **ON CALL**

**ISSUE DATE:** MAY 23, 2021

**RTLT:** 35h 5m 4s
**CCSL:** B192
**TWNC:** ON
**SB:** OFF
**XB:** LOW
**PYR:** .05/.10/.25
**GYROS:** OFF

**FDS MODE**
- XB DATA RATE(MI)

**32 DSN COVERAGE**

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**NOTES**
- **ON CALL**
- **VGR**
- **ON CALL**

**ISSUE DATE:** MAY 23, 2021
### S/C 31
**INITIAL CONDITIONS**
- **RTLTL:** 42h 8m 48s
- **CCSL:** A119
- **FDSSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

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- **PYR:** .05/.10/.25
- **GYROS:** OFF

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### VGR COVERAGE
- **ON CALL**

### NOTES