



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 22-013266/D008.R003
Report Date: 11/09/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/28/22 13:10

This is an amended version of report# 22-013266/D008.R002.
 Reason: Updated reporting units.

Customer: R&R
Product identity: R&R 30mg Full Spectrum Softgels - Lot 0815
Client/Metric ID: .
Laboratory ID: 22-013266-0005

Summary

Potency:

Analyte per 0.5ml	Result	Limits	Units	Status	
CBC per 0.5ml	1.15		mg/0.5ml		CBD-Total per Serving Size 30.2 mg/0.5ml
CBD per 0.5ml	29.6		mg/0.5ml		
CBD-A per 0.5ml	0.734		mg/0.5ml		THC-Total per Serving Size 1.20 mg/0.5ml
CBDV per 0.5ml	0.157		mg/0.5ml		
CBG per 0.5ml	0.290		mg/0.5ml		CBD-Total per Serving Size 1030 mg/17ml
CBN per 0.5ml	0.159		mg/0.5ml		
CBT per 0.5ml	0.566		mg/0.5ml		THC-Total per Serving Size 40.8 mg/17ml
Δ9-THC per 0.5ml	1.20		mg/0.5ml		
Analyte per 17ml	Result	Limits	Units	Status	(Reported in milligrams per serving)
CBC per 17ml	39.2		mg/17ml		
CBD per 17ml	1010		mg/17ml		
CBD-A per 17ml	25.0		mg/17ml		
CBDV per 17ml	5.34		mg/17ml		
CBG per 17ml	9.87		mg/17ml		
CBN per 17ml	5.42		mg/17ml		
CBT per 17ml	19.3		mg/17ml		
Δ9-THC per 17ml	40.8		mg/17ml		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
a-Bisabolol	0.0716	45.03%	farnesene	0.0472	29.69%
(-)-Guaiol	0.0210	13.21%	β-Caryophyllene	0.0190	11.95%
Total Terpenes	0.159	100.00%			

Metals:

Less than LOQ for all analytes.



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Microbiology:

Less than LOQ for all analytes.



Customer: R&R
United States of America (USA)

Product identity: R&R 30mg Full Spectrum Softgels - Lot 0815

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-013266-0005

Evidence of Cooling: No

Temp: 18.8 °C

Relinquished by: usps

Serving Size #1: 0.48 g

Serving Size #2: 16.32 g

Density: 0.9600 g/ml



Sample Results

Potency per 0.5ml	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2209356	Analyze: 11/1/22 5:15:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 0.5ml	1.15		mg/0.5ml	0.0152	
CBC-A per 0.5ml	< LOQ		mg/0.5ml	0.0150	
CBC-Total per 0.5ml	1.15		mg/0.5ml	0.0285	
CBD per 0.5ml	29.6		mg/0.5ml	0.152	
CBD-A per 0.5ml	0.734		mg/0.5ml	0.0152	
CBD-Total per 0.5ml	30.2		mg/0.5ml	0.165	
CBDV per 0.5ml	0.157		mg/0.5ml	0.0152	
CBDV-A per 0.5ml	< LOQ		mg/0.5ml	0.0150	
CBDV-Total per 0.5ml	0.157		mg/0.5ml	0.0283	
CBE per 0.5ml	< LOQ		mg/0.5ml	0.0150	
CBG per 0.5ml	0.290		mg/0.5ml	0.0152	
CBG-A per 0.5ml	< LOQ		mg/0.5ml	0.0150	
CBG-Total per 0.5ml	0.290		mg/0.5ml	0.0283	
CBL per 0.5ml	< LOQ		mg/0.5ml	0.0150	
CBL-A per 0.5ml	< LOQ		mg/0.5ml	0.0150	
CBL-Total per 0.5ml	< LOQ		mg/0.5ml	0.0282	
CBN per 0.5ml	0.159		mg/0.5ml	0.0152	
CBT per 0.5ml	0.566		mg/0.5ml	0.0152	
Δ8-THCV per 0.5ml	< LOQ		mg/0.5ml	0.0150	
Δ10-THC per 0.5ml	< LOQ		mg/0.5ml	0.0150	
Δ8-THC per 0.5ml	< LOQ		mg/0.5ml	0.0150	
Δ9-THC per 0.5ml	1.20		mg/0.5ml	0.0152	
exo-THC per 0.5ml	< LOQ		mg/0.5ml	0.0150	
THC-A per 0.5ml	< LOQ		mg/0.5ml	0.0150	
THC-Total per 0.5ml	1.20		mg/0.5ml	0.0285	
THCV per 0.5ml	< LOQ		mg/0.5ml	0.0150	
THCV-A per 0.5ml	< LOQ		mg/0.5ml	0.0150	
THCV-Total per 0.5ml	< LOQ		mg/0.5ml	0.0282	
Total Cannabinoids per 0.5ml	33.8		mg/0.5ml		



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Potency per 17ml **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2209356 **Analyze:** 11/1/22 5:15:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 17ml	39.2		mg/17ml	0.516	
CBC-A per 17ml	< LOQ		mg/17ml	0.510	
CBC-Total per 17ml	39.2		mg/17ml	0.968	
CBD per 17ml	1010		mg/17ml	5.16	
CBD-A per 17ml	25.0		mg/17ml	0.516	
CBD-Total per 17ml	1030		mg/17ml	5.61	
CBDV per 17ml	5.34		mg/17ml	0.516	
CBDV-A per 17ml	< LOQ		mg/17ml	0.510	
CBDV-Total per 17ml	5.34		mg/17ml	0.963	
CBE per 17ml	< LOQ		mg/17ml	0.510	
CBG per 17ml	9.87		mg/17ml	0.516	
CBG-A per 17ml	< LOQ		mg/17ml	0.510	
CBG-Total per 17ml	9.87		mg/17ml	0.963	
CBL per 17ml	< LOQ		mg/17ml	0.510	
CBL-A per 17ml	< LOQ		mg/17ml	0.510	
CBL-Total per 17ml	< LOQ		mg/17ml	0.957	
CBN per 17ml	5.42		mg/17ml	0.516	
CBT per 17ml	19.3		mg/17ml	0.516	
Δ8-THCV per 17ml	< LOQ		mg/17ml	0.510	
Δ10-THC per 17ml	< LOQ		mg/17ml	0.510	
Δ8-THC per 17ml	< LOQ		mg/17ml	0.510	
Δ9-THC per 17ml	40.8		mg/17ml	0.516	
exo-THC per 17ml	< LOQ		mg/17ml	0.510	
THC-A per 17ml	< LOQ		mg/17ml	0.510	
THC-Total per 17ml	40.8		mg/17ml	0.968	
THCV per 17ml	< LOQ		mg/17ml	0.510	
THCV-A per 17ml	< LOQ		mg/17ml	0.510	
THCV-Total per 17ml	< LOQ		mg/17ml	0.958	
Total Cannabinoids per 17ml	1150		mg/17ml		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2209273	10/31/22 AOAC 990.12 (Petrifilm) ^p	pass	
E.coli	< LOQ	100.00	cfu/g	10	2209271	10/31/22 AOAC 991.14 (Petrifilm) ^p	pass	
Total Coliforms	< LOQ	100.00	cfu/g	10	2209271	10/31/22 AOAC 991.14 (Petrifilm) ^p	pass	
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2209272	11/01/22 AOAC 2014.05 (RAPID) ^p	pass	
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2209272	11/01/22 AOAC 2014.05 (RAPID) ^p	pass	
Listeria monocytogenes	Negative		/5g		2209277	10/30/22 AOAC 2019.11 ^p		I
Salmonella spp. by PCR	Negative		/5g		2209275	10/30/22 AOAC 2020.02 ^p		I
EHEC including STEC	Negative		/5g		2209276	10/30/22 AOAC RI 121806 ^p		I



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Solvents						Method: Residual Solvents by GC/MS ^b						Units	µg/g	Batch	2209454	Analyze	11/03/22	02:23 PM
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes							
2-Methylbutane (Isopentane)	< LOQ	1000	200	pass		2-Methylpentane	< LOQ	60.0	30.0	pass								
2-Propanol (IPA) [‡]	< LOQ	1000	200	pass		2,2-Dimethylbutane	< LOQ	6.00	30.0	pass								
2,2-Dimethylpropane (neo-pentane)	< LOQ	1000	200	pass		2,3-Dimethylbutane	< LOQ	60.0	30.0	pass								
3-Methylpentane	< LOQ	60.0	30.0	pass		Acetone [‡]	< LOQ	1000	200	pass								
Benzene [‡]	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	1000	400	pass								
Ethanol [‡]	< LOQ	1000	200	pass		Ethyl acetate [‡]	< LOQ	1000	200	pass								
Hexanes (sum)	< LOQ	60.0	150	pass		m,p-Xylene	< LOQ	430	200	pass								
Methanol [‡]	< LOQ	600	200	pass		Methylpropane (Isobutane)	< LOQ	1000	200	pass								
n-Butane [‡]	< LOQ	1000	200	pass		n-Heptane [‡]	< LOQ	1000	200	pass								
n-Hexane [‡]	< LOQ	60.0	30.0	pass		n-Pentane [‡]	< LOQ	1000	200	pass								
o-Xylene	< LOQ	430	200	pass		Pentanes (sum)	< LOQ	1000	600	pass								
Propane [‡]	< LOQ	1000	200	pass		Toluene [‡]	< LOQ	180	100	pass								
Total Xylenes [‡]	< LOQ	430	400	pass														



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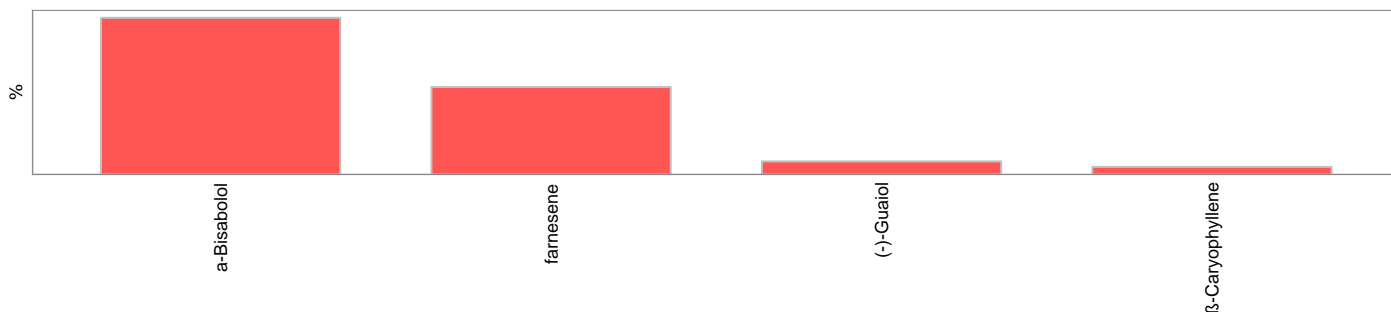
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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2209415		Analyze 11/02/22 03:26 PM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.25	0.070	pass		Acephate	< LOQ	0.050	0.020	pass	
Acequinocyl	< LOQ	0.030	0.025	pass		Acetamiprid	< LOQ	0.050	0.050	pass	
Aldicarb	< LOQ	0.50	0.100	pass		Allethrin	< LOQ	0.10	0.100	pass	
Atrazine	< LOQ	0.0250	0.025	pass		Azadirachtin	< LOQ	1.0	0.500	pass	
Azoxystrobin	< LOQ	0.010	0.010	pass		Benzovindiflupyr	< LOQ	0.010	0.010	pass	
Bifenazate	< LOQ	0.010	0.010	pass		Bifenthrin	< LOQ	1.0	0.100	pass	
Boscalid	< LOQ	0.010	0.010	pass		Buprofezin	< LOQ	0.020	0.010	pass	
Carbaryl	< LOQ	0.025	0.025	pass		Carbofuran	< LOQ	0.010	0.010	pass	
Chlorantraniliprole	< LOQ	0.020	0.010	pass		Chlorfenapyr	< LOQ	1.5	0.100	pass	
Chlorpyrifos	< LOQ	0.50	0.010	pass		Clofentezine	< LOQ	0.010	0.010	pass	
Clothianidin	< LOQ	0.025	0.025	pass		Coumaphos	< LOQ	0.010	0.010	pass	
Cyantraniliprole	< LOQ	0.010	0.010	pass		Cyfluthrin	< LOQ	0.20	0.200	pass	
Cyhalothrin,lambda	< LOQ	0.0200	0.250	pass		Cypermethrin	< LOQ	0.30	0.300	pass	
Cyprodinil	< LOQ	0.010	0.010	pass		Daminozide	< LOQ	0.10	0.050	pass	
Deltamethrin	< LOQ	0.50	0.500	pass		Diazinon	< LOQ	0.020	0.010	pass	
Dichlorvos	< LOQ	0.050	0.050	pass		Dimethoate	< LOQ	0.010	0.010	pass	
Dimethomorph	< LOQ	0.050	0.050	pass		Dinotefuran	< LOQ	0.050	0.050	pass	
Diuron	< LOQ	0.125	0.125	pass		Dodemorph	< LOQ	0.050	0.050	pass	
Endosulfan I (alpha)	< LOQ	2.5	0.050	pass		Endosulfan II (beta)	< LOQ	2.5	0.050	pass	
Endosulfan sulfate	< LOQ	2.5	0.050	pass		Ethoprophos	< LOQ	0.010	0.010	pass	
Etofenprox	< LOQ	0.050	0.010	pass		Etoxazole	< LOQ	0.020	0.010	pass	
Etridiazole	< LOQ	0.15	0.050	pass		Fenhexamid	< LOQ	0.13	0.100	pass	
Fenoxycarb	< LOQ	0.010	0.010	pass		Fenpyroximate	< LOQ	0.020	0.020	pass	
Fensulfothion	< LOQ	0.010	0.010	pass		Fenthion	< LOQ	0.010	0.010	pass	
Fenvalerate	< LOQ		0.200			Fipronil	< LOQ	0.010	0.010	pass	
Flonicamid	< LOQ	0.025	0.025	pass		Fludioxonil	< LOQ	0.010	0.010	pass	
Fluopyram	< LOQ	0.010	0.010	pass		Hexythiazox	< LOQ	0.010	0.010	pass	
Imazalil	< LOQ	0.010	0.010	pass		Imidacloprid	< LOQ	0.010	0.010	pass	
Iprodione	< LOQ	0.50	0.500	pass		Kinoprene	< LOQ	1.3	0.200	pass	
Kresoxim-methyl	< LOQ	0.15	0.010	pass		Malathion	< LOQ	0.010	0.010	pass	
Metalaxyl	< LOQ	0.010	0.010	pass		Methiocarb	< LOQ	0.010	0.010	pass	
Methomyl	< LOQ	0.025	0.025	pass		Methoprene	< LOQ	2.0	1.00	pass	
Mevinphos	< LOQ	0.025	0.025	pass		MGK-264	< LOQ	0.050	0.050	pass	
Myclobutanil	< LOQ	0.010	0.010	pass		Naled	< LOQ	0.10	0.100	pass	
Novaluron	< LOQ	0.025	0.025	pass		Oxamyl	< LOQ	1.5	0.500	pass	
Paclobotrazole	< LOQ	0.010	0.010	pass		Parathion-Methyl	< LOQ	0.050	0.030	pass	
Permethrin	< LOQ	0.50	0.040	pass		Phenothrin	< LOQ	0.050	0.025	pass	
Phosmet	< LOQ	0.020	0.010	pass		Piperonyl butoxide	< LOQ	1.3	0.200	pass	
Pirimicarb	< LOQ	0.010	0.010	pass		Prallethrin	< LOQ	0.050	0.050	pass	
Propiconazole	< LOQ	0.10	0.010	pass		Propoxur	< LOQ	0.010	0.010	pass	
Pyraclostrobin	< LOQ	0.010	0.010	pass		Pyrethrins (total)	< LOQ	0.050	0.025	pass	
Pyridaben	< LOQ	0.020	0.020	pass		Pyriproxyfen	< LOQ	0.0100	0.010	pass	
Quintozene	< LOQ	0.020	0.020	pass		Resmethrin	< LOQ	0.050	0.020	pass	
Spinetoram	< LOQ	0.010	0.010	pass		Spinosad	< LOQ	0.010	0.010	pass	
Spirodiclofen	< LOQ	0.25	0.250	pass		Spiromesifen	< LOQ	3.0	0.030	pass	
Spirotetramat	< LOQ	0.010	0.010	pass		Spiroxamine	< LOQ	0.10	0.010	pass	



Pesticides		Method: AOAC 2007.01 & EN 15662 (mod)				Units mg/kg	Batch 2209415	Analyze 11/02/22 03:26 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Tebuconazole	< LOQ	0.010	0.010	pass		Tebufenozide	< LOQ	0.010	0.010	pass	
Teflubenzuron	< LOQ	0.025	0.025	pass		Tetrachlorvinphos	< LOQ	0.010	0.010	pass	
Tetramethrin	< LOQ	0.10	0.050	pass		Thiacloprid	< LOQ	0.010	0.010	pass	
Thiamethoxam	< LOQ	0.010	0.010	pass		Thiophanate-Methyl	< LOQ	0.050	0.030	pass	
Trifloxystrobin	< LOQ	0.010	0.010	pass							

Terpenes		Method: J AOAC 2015 V98-6			Units %	Batch 2209448	Analyze 11/02/22 01:12 AM			
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes	
a-Bisabolol	0.0716	0.018	45.0314%		farnesene	0.0472	0.018	29.6855%		
(-)-Guaial	0.0210	0.018	13.2075%		β-Caryophyllene	0.0190	0.018	11.9497%		
Humulene	< LOQ	0.018	0.00%		nerol	< LOQ	0.018	0.00%		
(±)-trans-Nerolidol	< LOQ	0.018	0.00%		Eucalyptol	< LOQ	0.018	0.00%		
(-)-a-Terpineol	< LOQ	0.018	0.00%		a-Terpinene	< LOQ	0.018	0.00%		
(R)-(+)-Limonene	< LOQ	0.018	0.00%		a-phellandrene	< LOQ	0.018	0.00%		
(+)-Pulegone	< LOQ	0.018	0.00%		valencene	< LOQ	0.018	0.00%		
Geranyl acetate	< LOQ	0.018	0.00%		Sabinene hydrate	< LOQ	0.018	0.00%		
d-3-Carene	< LOQ	0.018	0.00%		p-Cymene	< LOQ	0.018	0.00%		
(±)-fenchone	< LOQ	0.018	0.00%		Linalool	< LOQ	0.018	0.00%		
Menthol	< LOQ	0.018	0.00%		(±)-Camphor	< LOQ	0.018	0.00%		
β-Myrcene	< LOQ	0.018	0.00%		(+)-Borneol	< LOQ	0.018	0.00%		
Terpinolene	< LOQ	0.018	0.00%		(±)-cis-Nerolidol	< LOQ	0.018	0.00%		
gamma-Terpinene	< LOQ	0.018	0.00%		Isoborneol	< LOQ	0.018	0.00%		
(-)-Isopulegol	< LOQ	0.018	0.00%		(+)-fenchol	< LOQ	0.018	0.00%		
(+)-Cedrol	< LOQ	0.018	0.00%		(-)-caryophyllene oxide	< LOQ	0.018	0.00%		
(-)-β-Pinene	< LOQ	0.018	0.00%		a-cedrene	< LOQ	0.018	0.00%		
a-pinene	< LOQ	0.018	0.00%		Camphene	< LOQ	0.018	0.00%		
cis-β-Ocimene	< LOQ	0.006	0.00%		Geraniol	< LOQ	0.018	0.00%		
Sabinene	< LOQ	0.018	0.00%		trans-β-Ocimene	< LOQ	0.012	0.00%		
Total Terpenes	0.159									





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Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	1.50	mg/kg	0.0284	2209388	11/01/22 AOAC 2013.06 (mod.) ^p	pass	
Cadmium	< LOQ	0.50	mg/kg	0.0284	2209388	11/01/22 AOAC 2013.06 (mod.) ^p	pass	
Lead	< LOQ	0.50	mg/kg	0.0284	2209388	11/01/22 AOAC 2013.06 (mod.) ^p	pass	
Mercury	< LOQ	1.50	mg/kg	0.0142	2209388	11/01/22 AOAC 2013.06 (mod.) ^p	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Aflatoxin B1 [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Aflatoxin G1 [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Aflatoxin G2 [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Ochratoxin A [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	



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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: Action levels per 6 CCR 1010-21 CDPHE requirements

‡ = ISO/IEC 17025:2017 accredited method.

¥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

g/ml = Gram per milliliter

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/0.5ml = Milligram per 0.5ml

mg/17ml = Milligram per 17ml

/5g = Per 5 grams

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner
General Manager



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