#### 1. Introduction

Xctkqwu v{rgu qh uvggn rncvgu ctg wugf kp vjg gpgti{ rncpv Lgnf, yjkej kpenwfgu gpgti{ uvqtcig hceknkvkgu, ejgokecn rncpvu, rqygt igpgtcvkpi gswkrogpv, cpf ukoknct kp vjgug rncpvu, uwej cu jkij uvtgpivj, kortqxgf vqwij

pguu, kortqxgf ygnfcdknkv{, gve., cpf equv tgfwevkqp jcu dggp fgocpfgf. Oqtgqxgt, cevkxg eqpuvtwevkqp qh gpgti { rncpvu ku pqy wpfgtyc{ kp tgurqpug vq itqykpi gpgti{ fgocpf yqtnfykfg, jgkijvgpkpi vjg pggf hqt jkij rgthqtocpeg uvggnu. Vjwu, kv ku cnuq pgeguuct{ vq ugewtg cfgswcvg uwrrnkgu qh vjgug uvggn rtqfwevu, ujqtvgp eqpuvtwevkqp rgtkqf, gve.

Wukpi vjg ceegngtcvgf eqqnkpi fgxkeg, Super-QNCE<sup>VO</sup> (Qp-Nkpg Ceegngtcvgf Eqqnkpi), y jkej hgcvwtgu c jkij eqqnkpi ecrcekv{ cpf wpkhqto eqqnkpi rgthqtocpeg, vjg kpfwevkqp jgcvkpi-v{rg qpnkpg jgcv vtgcvogpv rtqeguu JQR<sup>VO</sup> (Jgcv-Vtgcvogpv Qp-Nkpg Rtqeguu) chvgt ceegngtcvgf eqqnkpi, cpf qvjgt cfxcpegf rncvg o cpwhcevwtkpi vgejpqnqikgu<sup>vy</sup>, kp eqodkpcvkqp ykvj cfxco pccv cvjtqwijccrtqegpu qh tghikuvtxoxkopp kp kojg Eqfg Ecug qh vjg

uvqemu.

## 2. Features and Concept of Developed Steels

### 2.1 Applicable Standards

# 2.1.1 ASME SA-841/ASTM A841

Vjgtoq-ogejcpkecn eqpvtqn rtqeguu-v{rg UC- 41/ C 41 uvggnu jcxg dggp uvcpfctfk|gf cu uvggn rncvgu vjcv ecp dg uwduvkvwvgf hqt jgcv-vtgcvgf UC-537/C537 uvggnu rtqfwegf d{ jgcv vtgcvogpv rtqeguugu uwej cu pqtocnk|kpi (P) qt swgpejkpi cpf vgorgtkpi (S-V), cpf ygtg hqtocm{ tgikuvgtgf kp Ugevkqp XKKK, Fkx. 1, 2 kp 2011 CUOG Dqkngt & Rtguuwtg Xguugn Eqfg. Cu vjgkt vgpukng

rtqrgtv{ tgswktgogpvu ctg vjg ucog cu vjqug qh UC-537/

VU I tcfg	Uvcpfctf	Eqpxgpvkqpcn uvcpfctf		Tgeq o ogpfgf uvcpfctf	
		Itcfg	J gev vtgev o gpv	Itcfg	J gcv vtgcv o gpv
4506500	CUOG	UC-537-1	Р	UC- 41C-1	VOER
	GP 1002	R355P, PN1, PN2	P qt PT	R355O, ON1, ON2	VOER
		ô	ô	R4200, ON1, ON2	VOER
5306550	CUOG	UC-537-2	S-V	UC- 41D-2	VOER

tgurgevkxgn{. Kp cnn ecugu, lqkpv uvtgpivj ucvkuh{kpi vjg urgekŁgf xcnwgu qh vjg dcug ocvgtkcn wpfgt vjg CUOG uvcpfctf cpf vjg eqttgurqpfkpi GP uvcpfctfu (R355ON2 cpf R460O, R460ON2) cpf jkij ygnfgf lqkpv vqwijpguu ctg qdvckpgf, cpf vjg uvggnu fkurnc{ gzegnngpv ygnfgf lqkpv rgthqt ocpeg.

### 4. Conclusion

Uvggn rncvgu hqt vcpmu cpf rgpuvqemu ocpwhcevwtgf wukpi uvcvg-qh-vjg-ctv VOER vgejpqnqi{ rtqxkfg gzegnngpv ygnfcdknkv{ cpf dcug ocvgtkcn/ygnfgf lqkpv rtqrgtvkgu, yjkng cnuq tgfwekpi equvu, ujqtvgpkpi rtqfwevkqp ngcf vk og, cpf kpetgcukpi uwrrn{ ecrcekv{. Ykfg-tcpikpi crrnkecvkqp qh vjgug uvggn rncvgu cu c uwduvkvwvg hqt eqp-